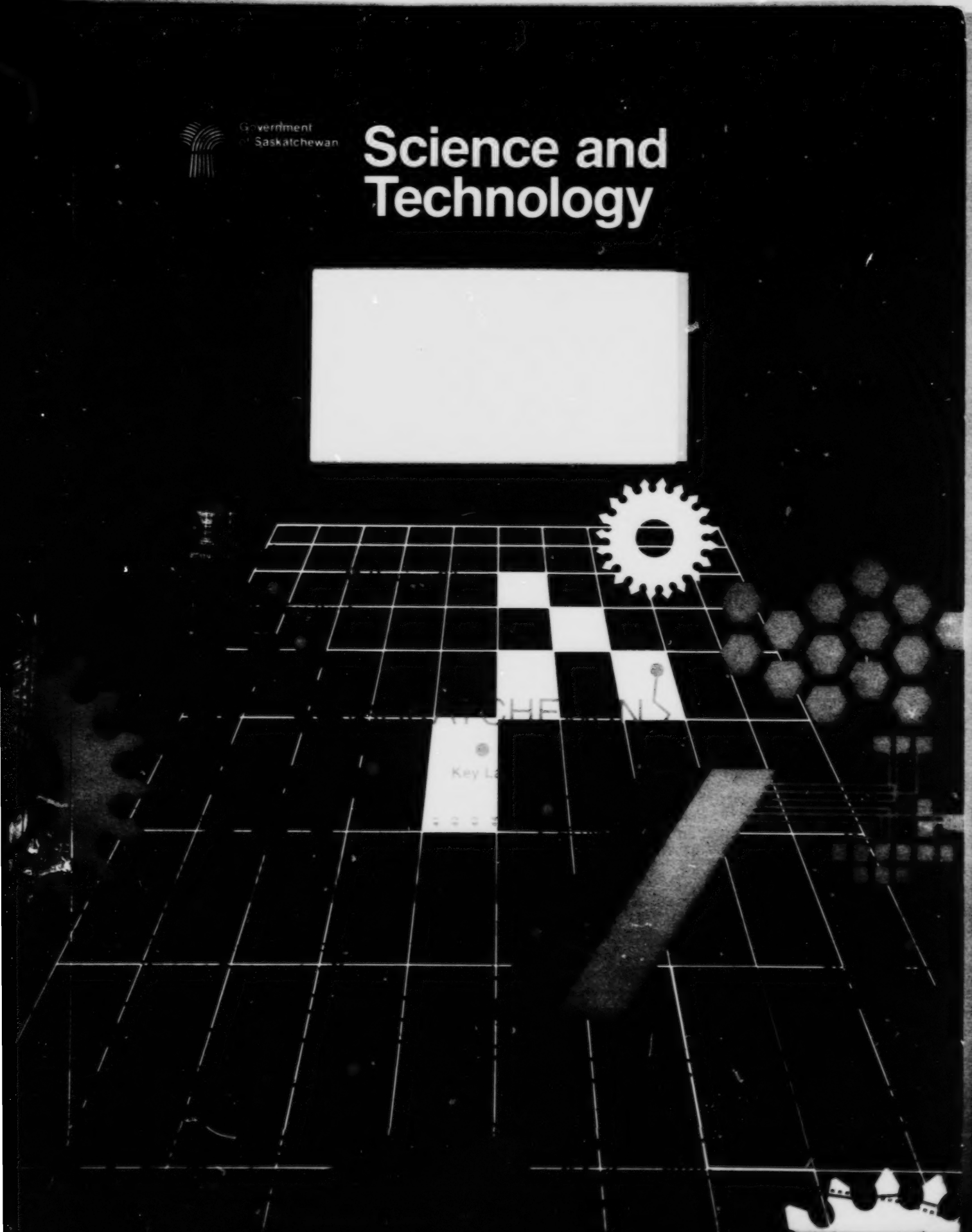
Government of Saskatchewan

Science and Technology



SCIENTIFIC ACTIVITIES OF THE GOVERNMENT

OF SASKATCHEWAN

1985-86 SURVEY RESULTS

A report prepared by:

The Science, Technology and
Capital Stock Division,
STATISTICS CANADA
January 1987

FOREWORD

This report presents a summary of the results of the twelfth survey of scientific activities of the government of Saskatchewan. The survey was conducted the week of May 26, 1986 by Lloyd Lizotte of Statistics Canada, with the cooperation and assistance of Ms. Deborah Des Rivieres, of the Department of Science and Technology.

The first surveys of government scientific activities at the provincial level were conducted in the provinces of Ontario, Alberta and Nova Scotia in 1974; Saskatchewan was included in 1975, British Columbia in 1977, New Brunswick in 1984, Manitoba in 1985 and Newfoundland in 1986. Reports for other provinces, similar to this one, are available on request from the representatives identified at the end of this report.

Surveys of the scientific activities of provincial governments serve several purposes. They provide an essential data base for analysis and the formulation of provincial science policy. They also provide data for the development of a national aggregate R&D series. National aggregates are published by Statistics Canada in many of the publications listed at the end of the report. The national aggregates are also needed to complete the international questionnaires for the Organization for Economic Cooperation and Development (OECD) and the United Nations Education, Science and Culture Organization (UNESCO).

The 1986 survey of Saskatchewan provincial government activities has produced reasonable indicators of scientific involvement at the department or agency level. This success is largely due to the goodwill and efforts of officials of the responding departments. The assistance provided by staff of the Department of Science and Technology is most gratefully acknowledged and appreciated by Statistics Canada.

TABLE OF CONTENTS

Highlights Page

TEXT TABLE I. Scientific Activities of the Government of Saskatchewan 8

TEXT TABLE II. Total Expenditures on Scientific Activities, by Science Type, 1979-80 to 1986-87 9

TEXT TABLE III. Total Expenditures on Scientific Activities, by Sector of Performance, 1985-86 11

TEXT TABLE IV. Total Expenditures on Scientific Activities, by Source of Funds, 1985-86 11

TEXT TABLE V. Departmental Personnel Engaged in Intramural Activities, by Science Type and Category, 1985-86 12

TEXT TABLE VI. Objective of Total Science Expenditures 13

Statistical Tables

	All Sciences		Natural Sciences		Social Sciences	
	Table	Page	Table	Page	Table	Page
Historical Series 1979-80 to 1986-87:						
Total Expenditures:						
by Activity	1	16	22	42	43	72
by Department or Agency	2	17	23	43	44	73
by Performer	3	18	24	44	45	74
Current Expenditures on R&D:						
by Department or Agency	4	19	25	45	46	75
by Performer	5	20	26	46	47	76
Departmental Personnel Engaged in Scientific Activities, by Activity and Category	6	21	27	47	48	77

TABLE OF CONTENTS - Continued

Statistical Tables - Concluded

	All Sciences		Natural Sciences		Social Sciences	
	Table	Page	Table	Page	Table	Page
Expenditures in 1985-86 Fiscal Year:						
Total Expenditures:						
by Sources of Funds	7	22	28	48	49	78
by Activity and Performer	8	23	29	49	50	79
by Department or Agency and Performer	9	24	30	51	51	81
Current Expenditures by Department or Agency and Activity	10	25	31	52	52	82
Current Expenditures on R&D by Department or Agency and Performer	11	26	32	53	53	83
Detail of Intramural Expenditures	12	27	33	54	54	84
Departmental Personnel Engaged in Scientific Activities, by Department or Agency	13	28	34	55	55	85
Objectives of Expenditures:						
by Department or Agency	14	29	35	57	56	87
by Activity	15	32	36	61	57	91
Estimates for 1986-87 Fiscal Year:						
Total Expenditures:						
by Activity and Performer	16	33	37	62	58	92
by Department or Agency and Performer	17	34	38	63	59	93
Current Expenditures by Department or Agency and Activity	18	35	39	64	60	94
Current Expenditures on R&D by Department or Agency and Performer	19	36	40	65	61	95
Departmental Personnel Engaged in Scientific Activities, by Department or Agency	20	37	41	66	62	96
Objectives of Expenditures:						
by Department or Agency	21	38	42	67	63	97

TABLE OF CONTENTS - Concluded

Statistical Figures: Page

Figure 1. Total Expenditures on Scientific Activities, by Activity, 1979-80 to 1986-87 10

Figure 2. Total Expenditures on Natural Science Activities, by Sector of Performance and Activity, 1985-86 50

Figure 3. Departmental Personnel Engaged in Intramural Natural Science Activities, by Activity and Category 1985-86 56

Figure 4. Objectives of Natural Science Expenditures, 1985-86 60

Figure 5. Total Expenditures on Social Science Activities, by Sector of Performance and Activity, 1985-86 80

Figure 6. Departmental Personnel Engaged in Intramural Social Science Activities, by Activity and Category, 1985-86 86

Figure 7. Objectives of Social Science Expenditures, 1985-86 90

Appendix:

Definitions 101

The Respondents 103

Indicators of Provincial Scientific Activities 109

Contacts in Other Provinces 117

Publications of Statistics Canada on science and technology 118

The following symbols are used in this report:

- \- nil or zero
- ... figures are not available or not applicable
- (r) revised figures
- (e) estimated figures

HIGHLIGHTS

Approximately 1.5% of the estimated 1985-86 budgetary expenditures of the government of Saskatchewan was spent on scientific activities. While total government expenditures for 1986-87 are estimated to increase by 8%, scientific expenditures should rise by 35%.

TEXT TABLE I. Scientific Activities of the Government of Saskatchewan

Department or Agency	1985-86			1986-87		
	Expenditures	Scientific expenditures	%	Estimated expenditures	Scientific expenditures	%
	($ millions)					
Agriculture	115.5	5.9	5.2	232.5	15.2	6.6
Cooperation & Co-op Development	3.1	.2	7.6	3.0	.3	8.5
Economic Development & Trade	8.4	.8	9.1	8.3	.8	10.1
Environment	7.2	1.8	24.7	7.4	2.0	26.6
Indian & Native Affairs	3.1	.3	9.8	2.6	.2	7.8
Science & Technology	6.0	4.0	66.2	5.5	5.5	100.0
Sub-total	**181.9**	**16.4**	**9.0**	**278.9**	**30.1**	**10.8**
Other(1)	3,284.8	34.1	1.0	3,469.0	38.1	1.1
Total	**3,466.7**	**50.5**	**1.5**	**3,747.9**	**68.2**	**1.9**

(1) Includes Vote 35 (Grant to the Saskatchewan Research Council).

TEXT TABLE II. Total Expenditures on Scientific Activities, by Science Type 1979-80 to 1986-87

Science type	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(*)
	($'000)							
Natural(1)	19,146	17,456	19,298	24,333	28,899	29,462	31,384	46,944
Social	6,327	9,086	8,819	8,653	11,678	16,936	19,113	21,209
Total	**25,473**	**26,542**	**28,117**	**32,986**	**40,577**	**46,398**	**50,497**	**68,153**

(1) Includes Vote 35 (Grant to the Saskatchewan Research Council).

Of the total 1985-86 science expenditures, 62% ($31.4 million) are for natural science activities. Research and development (R&D) account for $17.5 million (56%) of this amount. The remaining $13.9 million is spent on related scientific activities(RSA). Major support of research and development comes from the departments of Agriculture, Energy & Mines and Health as well as the Saskatchewan Research Council. The special services and studies activity is the major related scientific activity, supported mainly by the department of Health.

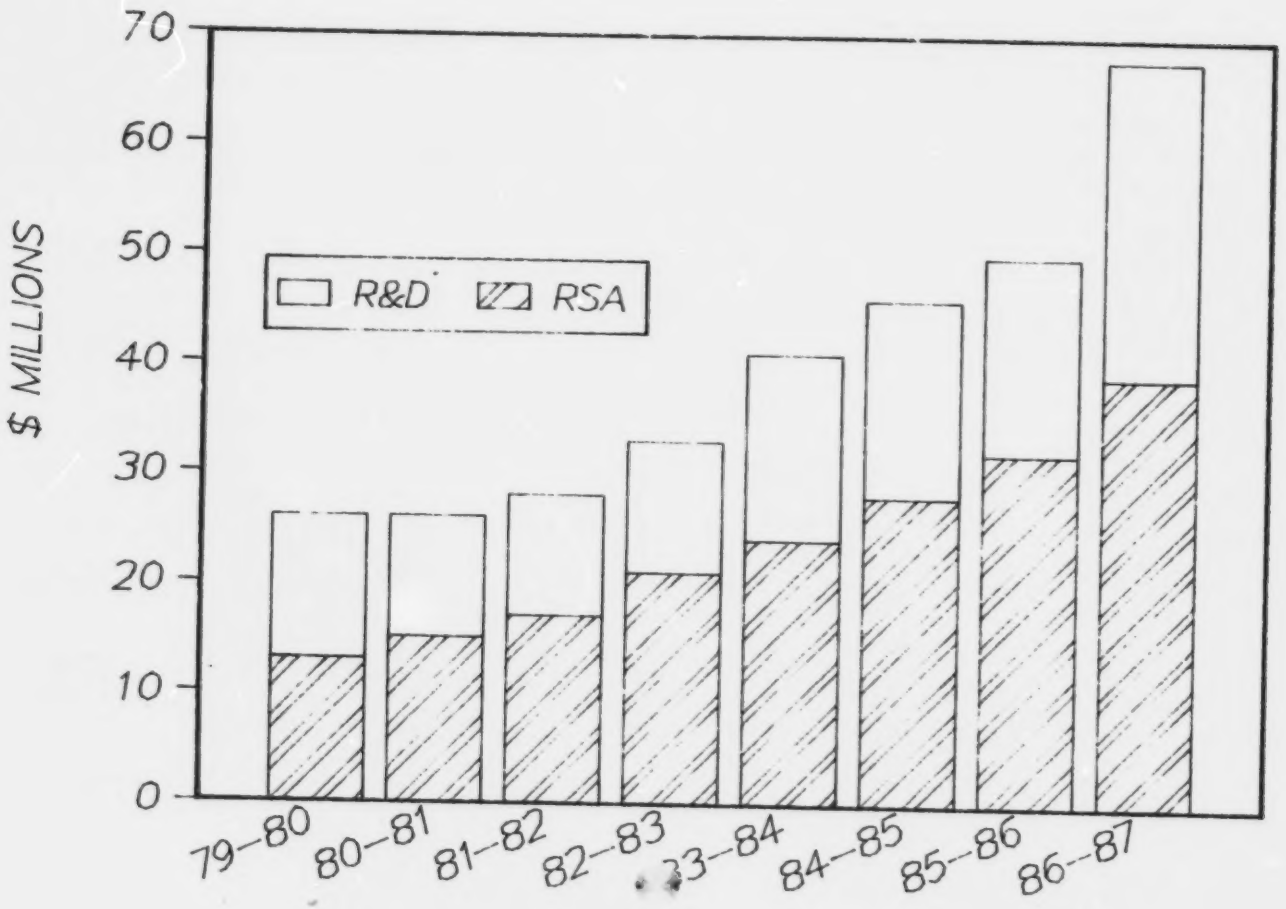
Social science activities account for 38% ($19.1 million) of the total 1985-86 Saskatchewan government science expenditure. Ninety six percent of this is spent on related scientific activities. The departments of Justice, Social Services, Health and Advanced Education and Manpower are the major supporters of social science activities.

NOTE: In this report the scientific expenditures of the Saskatchewan Research Council reflect only the yearly grant from the Saskatchewan Government (Vote 35). Additional information on the SRC is available in **Science Statistics**, Catalogue No. 88-001, Vol. 10, No. 9.

Figure 1.

Government of Saskatchewan

Total Expenditures on Scientific Activities, by Activity, 1979--80 to 1986--87



Text Table III. Total Expenditures on Scientific Activities, by Sector of Performance, 1985-86

Activity	Intramural	Industry	University	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
R&D	3,272	2,630	4,332	986	6,549	278	18,147
RSA	21,563	7,270	2,280	-	322	915	32,350
Total	**24,835**	**9,900**	**6,612**	**986**	**6,971**	**1,193**	**50,497**

(1) Includes only Provincial Government payments to the Saskatchewan Research Council (SRC).

The provincial government itself performed 49% of the scientific activities in 1985-86. Most of the RSA funded by the provincial government is performed in-house. However, only 18% of the R&D is performed by the government itself. This year the Industry sector is the largest extramural performer (20%) followed by the Saskatchewan Research Council (14%) and by the University sector (13%).

Text Table IV. Total Expenditures on Scientific Activities, by Source of Funds, 1985-86

Department or Agency	Departmental budget	Transfers from other departments	Federal Government	Trust fund	Other sources	Total
	($'000)					
Agriculture	5,532	-	-	-	379	5,911
Energy & Mines	148	-	1,436	-	1,853	3,437
Health	8,175	-	343	996	12	9,526
Science & Technology	1,136	-	-	-	2,856	3,992
Social Services	3,757	-	-	-	-	3,757
Other	22,776(2)	309	378	13	398	23,874(2)
Total	**41,524**	**309**	**2,157**	**1,009**	**5,498**	**50,497**

(2) Includes Vote 35 (Grant to the SRC).

The primary source of funds is the provincial departmental budgets, accounting for 82% of total science expenditure.

Text Table V. Departmental Personnel Engaged in Intramural Science Activities, by Science Type and Category, 1985-86

Science type and activity	Scientific & professional		Technical		Other		Total	
	Number	%	Number	%	Number	%	Number	%
Natural Sciences:								
R&D	29	40	39	53	5	7	73	100
RSA	63	27	133	56	39	17	235	100
Sub-total	**92**	**30**	**172**	**56**	**44**	**14**	**308**	**100**
Social Sciences:								
R&D	3	43	4	57	-	-	7	100
RSA	192	67	17	6	78	27	287	100
Sub-total	**195**	**66**	**21**	**7**	**78**	**27**	**294**	**100**
Total	**287**	**48**	**193**	**32**	**122**	**20**	**602**	**100**

Of the total Saskatchewan government employees, 602 person-years are devoted to science activities. The scientific and professional category accounts for 48%, technical personnel constitute 32% and other support staff the remaining 20%.

Text Table VI. Objective of Total Science Expenditures

Objective	1985-86		1986-87(e)	
	($'000)	%	($'000)	%
Advancement of science	1,471	3	2,013	3
Communications	535	1	820	1
Energy & fuels:				
Fossil fuels	3,008	6	5,693	8
Other	282	1	335	-
Environmental issues	3,475	7	3,614	5
Health	10,117	20	10,281	15
Industrial & economic development:				
Agriculture	6,654	13	16,087	24
Manufacturing	4,490	9	5,519	8
Minerals	1,231	2	1,187	2
Other	2,224	4	2,519	4
Social development & related areas	12,431	25	13,644	20
Transportation	2,741	5	4,701	7
All other	1.838	4	1,740	3
Total	**50,497**	**100**	**68,153**	**100**

Forty one percent of the money spent on natural science activities in 1985-86 was for Agriculture and Health. The major objective in the social sciences is Social development and related areas. Overall, $10.1 million was directed to Health, $6.7 million to Agriculture, $3.3 million to Energy and fuels, $7.9 million to Industrial and economic development (excluding Agriculture), $12.4 million to Social development & related areas and $10.1 million to all other areas.

ALL SCIENCES

Government of Saskatchewan

TABLE 1. Total Expenditures in All Sciences, by Activity, 1979-80 to 1986-87

Activity	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86[r]	1986-87[e]
	($'000)							
Research & development:								
Current expenditures:								
In-house	2,478	2,626	2,633	2,816	3,068	2,663	2,696	2,737
Contracts	466	362	354	766	3,795	4,265	6,819	10,456
Grants	9,819	7,838	7,919	8,637	9,853	11,086	8,130	14,738
Research fellowships	34	38	20	71	122	92	281	293
Sub-total	**12,797**	**10,864**	**10,926**	**12,290**	**16,838**	**18,106**	**17,926**	**28,224**
Capital expenditures	97	253	203	99	82	167	221	1,036
Related scientific activities:								
Current expenditures	12,145	15,107	16,810	20,357	23,500	27,320	32,217	38,764
Capital expenditures	434	318	178	240	157	805	133	129
Total	**25,473**	**26,542**	**28,117**	**32,986**	**40,577**	**46,398**	**50,497**	**68,153**

Government of Saskatchewan

TABLE 2. Total Expenditures in All Sciences by Department or Agency, 1979-80 to 1986-87

Department or Agency	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86(r)	1986-87(e)
	($'000)							
Advanced Education & Manpower	432	457	534	560	170	1,328	2,538	3,261
Agriculture	2,329	2,512	4,768	7,566	8,607	6,613	5,911	15,234
Archives Board	521	722	772	872	1,002	920	1,102	1,151
Assessment Authority	...	...	...	...	...	53	55	55
Cancer Foundation	...	...	...	241	282	407	447	450
Consumer & Commercial Affairs	6	2	...	75	75	295	50	50
Cooperation & Co-op Development	443	529	168	...	219	224	232	251
Culture & Recreation	550	624	860	304	358	464	507	527
Economic Development & Trade	...	...	...	...	556	647	756	834
Education	61	177	149	197	158	200	322	408
Employment Development Agency	...	...	...	...	...	...	379	350
Energy & Mines	8,946	5,052	2,820	3,623	5,183	4,274	3,437	6,093
Environment	78	517	737	991	687	755	1,773	1,973
Executive Council	213	253	299	401	260	538	465	368
Finance	42	...	...	...	...	1,052	1,132	1,084
Government Insurance Corporation	55	57	62	...	...	...	...	...
Health	4,461	6,446	6,608	6,686	9,044	9,308	9,526	9,722
Highway Traffic Board	50	178	97	127	90	84	84	103
Highways & Transportation	867	996	1,056	1,443	1,415	1,628	2,412	4,346
Indian & Native Affairs Secretariat	...	...	...	...	188	205	307	205
Industry & Commerce	446	625	522	758	...	...	...	...
Justice	...	...	...	...	1,295	1,495	2,226	2,085
Labour	458	458	655	694	675	212	278	260
Northern Saskatchewan	303	354	454	...	...	...	...	...
Parks & Renewable Resources	...	...	...	2,208	2,236	1,409	1,362	1,268
Public Service Commission	...	...	...	...	...	202	215	160
Revenue & Financial Services	...	...	...	...	110	102	228	280
Rural Development	...	146	130	166	205	264	249	253
Saskatchewan Crop Insurance Corporation	...	...	...	...	...	100	150	200
Saskatchewan Housing Corporation	198	356	371	...	...	318	234	198
Saskatchewan Library	...	...	...	...	...	30	112	306
Saskatchewan Telephones	...	...	...	...	...	...	...	119
Saskatchewan Water Corporation	...	...	...	...	...	755	784	830
Science & Technology	...	...	...	...	652	2,477	3,992	5,495
Social Services	863	1,202	1,421	1,575	1,824	2,892	3,757	4,609
Supply & Services	...	...	...	...	860	1,954	769	645
Tourism & Renewable Resources	972	1,342	1,782	...	...	...	...	...
Tourism & Small Business	...	...	...	186	90	264	180	405
Transportation Agency of Saskatchewan	311	60	26	...	...	...	...	...
Urban Affairs	269	747	761	794	460	785	415	427
Women's Secretariat	...	...	...	...	...	38	30	67
Vote 35	2,599	2,728	3,065	3,519	3,876	4,106	4,081	4,081
Total	25,473	26,542	29,117	32,986	40,577	46,398	50,497	68,153

Government of Saskatchewan

TABLE 3. Total Expenditures in All Sciences, by Performer, 1979-80 to 1986-87

Performer	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86(r)	1986-87(e)
	($'000)							
Intramural	13,690	16,194	16,238	19,398	23,036	24,351	24,835	31,435
Industry	6,531	4,180	2,294	3,358	5,501	7,666	9,900	14,541
Universities	1,855	1,820	4,214	5,158	6,408	7,032	6,612	9,856
Hospitals & health organizations	250	1,150	1,057	140	203	886	986	1,000
Saskatchewan Research Council(1)	2,934	2,830	3,786	3,869	4,227	4,460	6,971	9,906
Other	213	368	528	1,063	1,202	2,003	1,193	1,415
Total	**25,473**	**26,542**	**28,117**	**32,986**	**40,577**	**46,398**	**50,497**	**68,153**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 4. Current Expenditures on R&D in All Sciences, by Department or Agency, 1979-80 to 1986-87

Department or Agency	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86(r)	1986-87(e)
	($'000)							
Advanced Education & Manpower	28	32	20	21	...	...	...	...
Agriculture	1,572	2,075	4,072	4,922	4,654	4,989	4,196	11,153
Archives Board	107	32	...	...	...	...	...	...
Cancer Foundation	...	...	...	182	259	355	424	400
Consumer & Commercial Affairs	...	...	...	12	12	...	...	...
Cooperation & Co-op Development	60	104	...	...	...	...	...	...
Culture & Recreation	131	135	160	65	18	36	40	40
Energy & Mines	6,067	1,994	78	522	3,320	3,378	2,665	4,937
Environment	...	...	...	...	50	55	220	200
Executive Council	67	61	65	134	65	181	142	190
Government Insurance Corporation	53	54	57	...	...	...	...	...
Health	1,299	2,493	2,220	1,691	2,543	2,846	3,098	3,180
Highway Traffic Board	15	50	...	...	...	...	...	...
Highways & Transportation	219	147	197	250	257	225	510	1,143
Industry & Commerce	133	382	99	344	...	...	...	...
Northern Saskatchewan	88	4	...	...	...	...	...	...
Parks & Renewable Resources	...	...	...	536	1,021	621	806	825
Saskatchewan Crop Insurance Corporation	...	...	...	...	...	5	5	5
Saskatchewan Housing Corporation	...	...	44	...	...	...	...	...
Saskatchewan Library	...	...	...	...	...	...	19	76
Saskatchewan Water Corporation	...	...	...	...	...	80	60	80
Science & Technology	...	...	...	...	450	986	1,444	1,715
Social Services	26	33	...	92	133	141	144	169
Supply & Services	...	...	...	...	170	102	72	30
Tourism & Renewable Resources	316	535	848	...	...	...	...	...
Tourism & Small Business	...	...	...	...	10	...	...	...
Transportation Agency of Saskatchewan	17	5	1	...	...	...	...	...
Vote 35	2,599	2,728	3,065	3,519	3,876	4,106	4,081	4,081
Total	**12,797**	**10,864**	**10,926**	**12,290**	**16,838**	**18,106**	**17,926**	**28,224**

Government of Saskatchewan

TABLE 5. Current Expenditures on R&D in All Sciences, by Performer, 1979-80 to 1986-87

Performer	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86(r)	1986-87(e)
	($'000)							
Intramural	2,550	2,659	2,633	2,828	3,563	3,093	3,051	4,013
Industry	5,824	2,494	454	846	3,379	3,604	2,630	7,283
Universities	1,354	1,696	3,705	4,683	5,570	5,796	4,332	6,519
Hospitals & health organizations	250	1,150	796	119	189	886	986	1,000
Saskatchewan Research Council(1)	2,685	2,728	3,218	3,555	3,908	4,315	6,649	9,023
Other	134	137	120	259	229	407	278	386
Total	**12,797**	**10,864**	**10,926**	**12,290**	**16,838**	**18,101**	**17,926**	**28,224**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 6. Departmental Personnel Engaged in All Scientific Activities, by Activity and by Category, 1979-80 to 1986-87

Activity and category	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86(r)	1986-87(e)
	(person-years)							
Research & development:								
Scientific & professional	63	57	44	49	44	42	32	48
Technical	41	41	42	40	37	42	43	40
Other	12	15	11	8	4	8	5	6
Sub-total	**116**	**113**	**97**	**97**	**85**	**92**	**80**	**94**
Related scientific activities:								
Scientific & professional	183	153	159	194	194	217	255	281
Technical	111	126	110	172	169	140	150	168
Other	93	105	91	89	100	111	117	112
Sub-total	**387**	**384**	**360**	**455**	**463**	**468**	**522**	**561**
Total science activities:								
Scientific & professional	246	210	203	243	238	259	287	329
Technical	152	167	152	212	206	182	193	208
Other	105	120	102	97	104	119	122	118
Total	**503**	**497**	**457**	**552**	**548**	**560**	**602**	**655**

Government of Saskatchewan

TABLE 7. Total Expenditures in All Sciences, by Sources of Funds, 1985-86

Department or Agency	Departmental budget	Transfers from other departments	Transfers from federal government	From Trust Funds	From other sources	Total
	($'000)					
Advanced Education & Manpower	2,538	-	-	-	-	2,538
Agriculture	5,532	-	-	-	379	5,911
Archives Board	867	109	14	13	99	1,102
Assessment Authority	55	-	-	-	-	55
Cancer Foundation	348	-	-	-	99	447
Consumer & Commercial Affairs	50	-	-	-	-	50
Cooperation & Co-op Development	232	-	-	-	-	232
Culture & Recreation	507	-	-	-	-	507
Economic Development & Trade	756	-	-	-	-	756
Education	322	-	-	-	-	322
Employment Development Agency	379	-	-	-	-	379
Energy & Mines	148	-	1,436	-	1,853	3,437
Environment	1,773	-	-	-	-	1,773
Executive Council	462	-	3	-	-	465
Finance	1,132	-	-	-	-	1,132
Health	8,175	-	343	996	12	9,526
Highway Traffic Board	84	-	-	-	-	84
Highways & Transportation	2,412	-	-	-	-	2,412
Indian & Native Affairs Secretariat	307	-	-	-	-	307
Justice	2,068	-	158	-	-	2,226
Labour	278	-	-	-	-	278
Parks & Renewable Resources	1,159	-	203	-	-	1,362
Public Service Commission	215	-	-	-	-	215
Revenue & Financial Services	228	-	-	-	-	228
Rural Development	249	-	-	-	-	249
Saskatchewan Crop Insurance Corporation	150	-	-	-	-	150
Saskatchewan Housing Corporation	234	-	-	-	-	234
Saskatchewan Library	112	-	-	-	-	112
Saskatchewan Water Corporation	784	-	-	-	-	784
Science & Technology	1,136	-	-	-	2,856	3,992
Social Services	3,757	-	-	-	-	3,757
Supply & Services	369	200	-	-	200	769
Tourism & Small Business	180	-	-	-	-	180
Urban Affairs	415	-	-	-	-	415
Women's Secretariat	30	-	-	-	-	30
Vote 35	4,081	-	-	-	-	4,081
Total	41,524	309	2,157	1,009	5,498	50,497

Government of Saskatchewan

TABLE 8. Total Expenditures in All Sciences, by Activity and Performer, 1985-86

Activity	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Research and development:							
Current expenditures:							
In-house	2,696	...	...	...	...	...	2,696
Contracts	255	2,147	1,964	-	2,383	70	6,819
Grants	100	483	2,087	986	4,266	208	8,130
Research fellowships	-	-	281	-	-	-	281
Sub-total	**3,051**	**2,630**	**4,332**	**986**	**6,649**	**278**	**17,926**
Capital expenditures	221	...	...	...	...	...	221
Related scientific activities:							
Current expenditures	21,430	7,270	2,280	-	322	915	32,217
Capital expenditures	133	...	...	...	...	...	133
Total	**24,835**	**9,900**	**6,612**	**986**	**6,971**	**1,193**	**50,497**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 9. Total Expenditures in All Sciences, by Department or Agency and Performer, 1985-86

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Advanced Education & Manpower	1,513	151	874	-	-	-	2,538
Agriculture	930	1,013	3,375	-	198	395	5,911
Archives Board	1,102	-	-	-	-	-	1,102
Assessment Authority	55	-	-	-	-	-	55
Cancer Foundation	447	-	-	-	-	-	447
Consumer & Commercial Affairs	50	-	-	-	-	-	50
Cooperation & Co-op Development	98	-	130	-	-	4	232
Culture & Recreation	482	-	-	-	-	25	507
Economic Development & Trade	126	630	-	-	-	-	756
Education	168	-	119	-	-	35	322
Employment Development Agency	316	63	-	-	-	-	379
Energy & Mines	562	198	225	-	2,452	-	3,437
Environment	1,112	213	200	-	170	78	1,773
Executive Council	222	77	69	-	-	97	465
Finance	1,132	-	-	-	-	-	1,132
Health	7,436	-	1,104	986	-	-	9,526
Highway Traffic Board	84	-	-	-	-	-	84
Highways & Transportation	1,949	302	71	-	30	60	2,412
Indian & Native Affairs Secretariat	39	64	-	-	-	204	307
Justice	1,528	698	-	-	-	-	2,226
Labour	278	-	-	-	-	-	278
Parks & Renewable Resources	1,009	337	16	-	-	-	1,362
Public Service Commission	215	-	-	-	-	-	215
Revenue & Financial Services	181	47	-	-	-	-	228
Rural Development	104	145	-	-	-	-	249
Saskatchewan Crop Insurance Corporation	150	-	-	-	-	-	150
Saskatchewan Housing Corporation	177	56	-	-	1	-	234
Saskatchewan Library	112	-	-	-	-	-	112
Saskatchewan Water Corporation	567	142	1	-	-	74	784
Science & Technology	1,136	2,516	320	-	20	-	3,992
Social Services	696	2,760	104	-	-	197	3,757
Supply & Services	459	310	-	-	-	-	769
Tourism & Small Business	70	75	4	-	19	12	180
Urban Affairs	300	103	-	-	-	12	415
Women's Secretariat	30	-	-	-	-	-	30
Vote 35	-	-	-	-	4,081	-	4,081
Total	24,835	9,900	6,612	986	6,971	1,193	50,497

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 10. Current Expenditures in All Sciences, by Department or Agency and Activity, 1985-86

Department or Agency	Research & development	Related scientific activities	Total
	($'000)		
Advanced Education	-	2,538	2,538
Agriculture	4,196	1,715	5,911
Archives Board	-	1,102	1,102
Assessment Authority	-	55	55
Cancer Foundation	424	-	424
Consumer & Commercial Affairs	-	50	50
Cooperation & Co-op Development	-	232	232
Culture & Recreation	40	456	496
Economic Development & Trade	-	756	756
Education	-	322	322
Employment Development Agency	-	375	375
Energy & Mines	2,665	772	3,437
Environment	220	1,553	1,773
Executive Council	142	323	465
Finance	-	1,132	1,132
Health	3,098	6,249	9,347
Highway Traffic Board	-	84	84
Highways & Transportation	510	1,800	2,310
Indian & Native Affairs Secretariat	-	307	307
Justice	-	2,226	2,226
Labour	-	278	278
Parks & Renewable Resources	806	556	1,362
Public Service Commission	-	215	215
Revenue & Financial Services	-	228	228
Rural Development	-	239	239
Saskatchewan Crop Insurance Corporation	5	145	150
Saskatchewan Housing Corporation	-	234	234
Saskatchewan Library	19	93	112
Saskatchewan Water Corporation	60	724	784
Science & Technology	1,444	2,548	3,992
Social Services	144	3,613	3,757
Supply & Services	72	672	744
Tourism & Small Business	-	180	180
Urban Affairs	-	415	415
Women's Secretariat	-	30	30
Vote 35	4,081	-	4,081
Total	17,926	32,217	50,143

Government of Saskatchewan

TABLE 11. Current Expenditures on R&D in All Sciences, by Department or Agency and Performer, 1985-86

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Agriculture	164	629	3,045	-	190	168	4,196
Cancer Foundation	424	-	-	-	-	-	424
Culture & Recreation	40	-	-	-	-	-	40
Energy & Mines	179	35	113	-	2,338	-	2,665
Environment	-	-	200	-	10	10	220
Executive Council	57	77	8	-	-	-	142
Health	1,313	-	799	986	-	-	3,098
Highways & Transportation	286	87	47	-	30	60	510
Parks & Renewable Resources	453	337	16	-	-	-	806
Saskatchewan Crop Insurance Corporation	5	-	-	-	-	-	5
Saskatchewan Library	19	-	-	-	-	-	19
Saskatchewan Water Corporation	-	60	-	-	-	-	60
Science & Technology	76	1,368	-	-	-	-	1,444
Social Services	-	-	104	-	-	40	144
Supply & Services	35	37	-	-	-	-	72
Vote 35	-	-	-	-	4,081	-	4,081
Total	3,051	2,630	4,332	986	6,649	278	17,926

(1) Includeds only Provincial Government payments to the SRC.

TABLE 12. Detail of Intramural Expenditures in All Sciences, by Department or Agency and Expenditure, 1985-86

Department or Agency	Current expenditures		Capital expenditures	Total
	Personnel costs	Other costs		
	($'000)			
Advanced Education & Manpower	1,313	200	-	1,513
Agriculture	930	-	-	930
Archives Board	833	269	-	1,102
Assessment Authority	55	-	-	55
Cancer Foundation	365	59	23	447
Consumer & Commercial Affairs	50	-	-	50
Cooperation & Co-op Development	98	-	-	98
Culture & Recreation	406	65	11	482
Economic Development & Trade	126	-	-	126
Education	150	18	-	168
Employment Development Agency	296	16	4	316
Energy & Mines	164	398	-	562
Environment	625	487	-	1,112
Executive Council	152	70	-	222
Finance	990	142	-	1,132
Health	5,246	2,011	179	7,436
Highway Traffic Board	80	4	-	84
Highways & Transportation	1,555	292	102	1,949
Indian & Native Affairs Secretariat	39	-	-	39
Justice	1,256	272	-	1,528
Labour	159	119	-	278
Parks & Renewable Resources	738	271	-	1,009
Public Service Commission	215	-	-	215
Revenue & Financial Services	181	-	-	181
Rural Development	83	11	10	104
Saskatchewan Crop Insurance Corporation	100	50	-	150
Saskatchewan Housing Corporation	159	18	-	177
Saskatchewan Library	89	23	-	112
Saskatchewan Water Corporation	527	40	-	567
Science & Technology	629	507	-	1,136
Social Services	602	94	-	696
Supply & Services	414	20	25	459
Tourism & Small Business	70	-	-	70
Urban Affairs	270	30	-	300
Women's Secretariat	30	-	-	30
Total	18,995	5,486	354	24,835

Government of Saskatchewan

TABLE 13. Departmental Personnel Engaged in All Scientific Activities, by Department or Agency, 1985-86

Department or Agency	Research & development				Related scientific activities			
	Scientific & professional	Technical	Other	Total	Scientific & professional	Technical	Other	Total
	(person-years)							
Advanced Education & Manpower	-	-	-	-	29	2	-	31
Agriculture	2	-	-	2	19	-	6	25
Archives Board	-	-	-	-	16	3	13	32
Assessment Authority	-	-	-	-	2	-	-	2
Cancer Foundation	-	14	-	14	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	1	-	-	1
Cooperation & Co-op Development	-	-	-	-	1	1	-	2
Culture & Recreation	2	-	-	2	8	3	-	11
Economic Development & Trade	-	-	-	-	4	-	-	4
Education	-	-	-	-	1	-	3	4
Employment Development Agency	-	-	-	-	7	-	1	8
Energy & Mines	2	-	1	3	-	-	-	-
Environment	-	-	-	-	8	17	-	25
Executive Council	1	1	-	2	2	1	1	4
Finance	-	-	-	-	24	-	4	28
Health	13	22	3	38	34	56	53	143
Highway Traffic Board	-	-	-	-	1	-	1	2
Highways & Transportation	3	2	1	6	4	29	5	38
Indian & Native Affairs Secretariat	-	-	-	-	1	-	-	1
Justice	-	-	-	-	20	5	14	39
Labour	-	-	-	-	3	-	3	6
Parks & Renewable Resources	8	4	-	12	5	5	-	10
Public Service Commission	-	-	-	-	5	-	-	5
Revenue & Financial Services	-	-	-	-	5	-	-	5
Rural Development	-	-	-	-	1	1	-	2
Saskatchewan Crop Insurance Corporation	-	-	-	-	1	1	1	3
Saskatchewan Housing Corporation	-	-	-	-	6	-	-	6
Saskatchewan Library	-	-	-	-	1	1	-	2
Saskatchewan Water Corporation	-	-	-	-	4	18	-	22
Science & Technology	1	-	-	1	8	-	11	19
Social Services	-	-	-	-	20	-	-	20
Supply & Services	-	-	-	-	5	7	-	12
Tourism & Small Business	-	-	-	-	2	-	1	3
Urban Affairs	-	-	-	-	6	-	-	6
Women's Secretariat	-	-	-	-	1	-	-	1
Total	32	43	5	80	255	150	117	522

TABLE 14. Objectives of Expenditures in All Sciences, by Department or Agency, 1985-86

Department or Agency	Advancement of Science	Communications	Energy & Fuels				Environmental Issues			
			Conservation	Fossil fuels	Renewable Resources	Other	Air	Land	Water	Other
	($'000)									
Advanced Education & Manpower	-	306	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-	-
Archives Board	-	-	-	-	-	-	-	-	-	-
Assessment Authority	-	-	-	-	-	-	-	-	-	-
Cancer Foundation	-	-	-	-	-	-	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	-	-	-	-	-	-
Cooperation & Co-op Development	-	-	-	-	-	-	-	-	-	-
Culture & Recreation	40	-	-	-	-	-	-	-	-	-
Economic Development & Trade	-	-	-	-	-	-	-	-	-	-
Education	-	-	-	-	-	-	-	-	-	-
Employment Development Agency	-	-	-	-	-	-	-	-	-	-
Energy & Mines	-	-	-	2,993	-	-	-	-	-	-
Environment	-	-	-	-	-	-	139	444	990	200
Executive Council	272	-	10	15	15	-	-	-	-	-
Finance	-	-	-	-	-	-	-	-	-	-
Health	-	-	-	-	-	-	-	-	-	-
Highway Traffic Board	-	-	-	-	-	-	-	-	-	-
Highways & Transportation	-	-	-	-	-	-	-	-	-	-
Indian & Native Affairs Secretariat	-	6	-	-	-	-	-	-	-	-
Justice	-	216	-	-	-	-	-	-	-	-
Labour	-	-	-	-	-	-	-	-	-	-
Parks & Renewable Resources	-	7	-	-	-	-	-	-	133	-
Public Service Commission	-	-	-	-	-	-	-	-	-	-
Revenue & Financial Services	-	-	-	-	-	-	-	-	-	-
Rural Development	-	-	-	-	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	-	-	-	-	-	-	-	-	-	-
Saskatchewan Housing Corporation	-	-	-	-	-	-	-	-	-	-
Saskatchewan Library	38	-	-	-	-	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	-	-	-	-	-	784	-
Science & Technology	830	-	-	-	-	-	-	-	-	-
Social Services	-	-	-	-	-	-	-	-	-	-
Supply & Services	30	-	-	-	-	-	-	10	-	-
Tourism & Small Business	-	-	-	-	-	-	-	-	-	-
Urban Affairs	-	-	-	-	-	-	-	-	-	-
Women's Secretariat	-	-	-	-	-	-	-	-	-	-
Vote 35	261	-	-	-	-	257	-	-	-	775
Total	1,471	535	10	3,008	15	257	139	454	1,907	975

Government of Saskatchewan

TABLE 14. Objectives of Expenditures in All Sciences, by Department or Agency, 1985-86 - Continued

Department or Agency	Health	Industrial and economic development					
		Agriculture	Fisheries	Forestry	Manufacturing	Minerals	Other
	($'000)						
Advanced Education & Manpower	-	7	-	-	-	-	-
Agriculture	-	5,911	-	-	-	-	-
Archives Board	-	-	-	-	-	-	-
Assessment Authority	-	-	-	-	-	-	-
Cancer Foundation	447	-	-	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	-	-	-
Cooperation & Co-op Development	-	10	-	-	-	-	39
Culture & Recreation	-	-	-	-	-	-	-
Economic Development & Trade	-	-	-	-	756	-	-
Education	-	-	-	-	-	-	-
Employment Development Agency	-	-	-	-	-	-	-
Energy & Mines	-	-	-	-	-	444	-
Environment	-	-	-	-	-	-	-
Executive Council	-	35	-	10	-	-	-
Finance	-	-	-	-	-	-	-
Health	9,526	-	-	-	-	-	-
Highway Traffic Board	-	-	-	-	-	-	-
Highways & Transportation	-	-	-	-	-	-	-
Indian & Native Affairs Secretariat	-	-	-	-	-	-	63
Justice	-	-	-	-	-	-	-
Labour	-	-	-	-	-	-	-
Parks & Renewable Resources	-	-	50	414	-	-	-
Public Service Commission	-	-	-	-	-	-	-
Revenue & Financial Services	-	-	-	-	-	-	-
Rural Development	-	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	-	150	-	-	-	-	-
Saskatchewan Housing Corporation	-	-	-	-	-	-	-
Saskatchewan Library	-	-	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	-	-	-	-
Science & Technology	-	-	-	-	3,162	-	-
Social Services	144	-	-	-	-	-	-
Supply & Services	-	10	-	-	-	-	570
Tourism & Small Business	-	-	44	-	-	-	136
Urban Affairs	-	-	-	-	-	-	-
Women's Secretariat	-	-	-	-	-	-	-
Vote 35	-	531	-	-	572	787	898
Total	10,117	6,654	94	424	4,490	1,231	1,706

TABLE 14. Objectives of Expenditures in All Sciences, by Department or Agency 1985-86 - Continued

Department or Agency	Social development & related areas					Transportation	Wildlife	Other	Total
	Culture, sport & recreation	Education	Human resources	Urban & regional studies	Other				
	($'000)								
Advanced Education & Manpower	874	1,303	-	-	48	-	-	-	2,538
Agriculture	-	-	-	-	-	-	-	-	5,911
Archives Board	771	-	-	-	331	-	-	-	1,102
Assessment Authority	-	-	-	55	-	-	-	-	55
Cancer Foundation	-	-	-	-	-	-	-	-	447
Consumer & Commercial Affairs	-	-	-	-	50	-	-	-	50
Cooperation & Co-op Development	-	-	148	-	35	-	-	-	232
Culture & Recreation	460	-	-	-	-	-	7	-	507
Economic Development & Trade	-	-	-	-	-	-	-	-	756
Education	-	322	-	-	-	-	-	-	322
Employment Development Agency	-	-	379	-	-	-	-	-	379
Energy & Mines	-	-	-	-	-	-	-	-	3,437
Environment	-	-	-	-	-	-	-	-	1,773
Executive Council	-	-	-	-	108	-	-	-	465
Finance	-	-	-	-	-	-	-	1,132	1,132
Health	-	-	-	-	-	-	-	-	9,526
Highway Traffic Board	-	-	-	-	-	84	-	-	84
Highways & Transportation	-	-	-	-	-	2,412	-	-	2,412
Indian & Native Affairs Secretariat	-	-	-	-	238	-	-	-	307
Justice	-	-	-	-	2,010	-	-	-	2,226
Labour	-	-	278	-	-	-	-	-	278
Parks & Renewable Resources	268	-	-	-	-	-	490	-	1,362
Public Service Commission	-	-	215	-	-	-	-	-	215
Revenue & Financial Services	-	-	81	-	27	-	-	120	228
Rural Development	-	-	-	24	-	225	-	-	249
Saskatchewan Crop Insurance Corporation	-	-	-	-	-	-	-	-	150
Saskatchewan Housing Corporation	-	-	-	234	-	-	-	-	234
Saskatchewan Library	-	-	-	-	74	-	-	-	112
Saskatchewan Water Corporation	-	-	-	-	-	-	-		784
Science & Technology	-	-	-	-	-	-	-	-	3,992
Social Services	-	-	-	-	3,613	-	-	-	3,757
Supply & Services	-	-	-	40	-	20	-	89	769
Tourism & Small Business	-	-	-	-	-	-	-	-	180
Urban Affairs	-	-	-	415	-	-	-	-	415
Women's Secretariat	-	-	-	-	30	-	-	-	30
Vote 35	-	-	-	-	-	-	-	-	4,081
Total	2,373	1,625	1,101	768	6,564	2,741	497	1,341	50,497

TABLE 15. Objectives of Expenditures in All Sciences, by Activity, 1985-86

Objective	Intramural		Extramural		Total
	Research & development	Related scientific activities	Research & development	Related scientific activities	
	($'000)				
Advancement of science	116	636	261	458	1,471
Communications	-	415	-	120	535
Energy & fuels:					
Conservation	-	-	10	-	10
Fossil fuels	179	51	2,501	277	3,008
Renewable Resources	-	-	15	-	15
Other	-	-	257	-	257
Environmental issues:					
Air	-	65	20	54	139
Land	-	318	-	136	454
Water	-	1,439	60	408	1,907
Other	-	-	975	-	975
Health	1,856	6,027	1,929	305	10,117
Industrial & economic development:					
Agriculture	169	931	4,598	956	6,654
Fisheries	10	20	40	24	94
Forestry	229	10	185	-	424
Manufacturing	76	656	1,940	1,818	4,490
Minerals	-	332	787	112	1,231
Other	25	354	935	392	1,706
Social development & related areas:					
Culture, sport & recreation	146	1,206	122	899	2,373
Education	-	1,471	-	154	1,625
Human resources	-	857	-	244	1,101
Urban & regional studies	10	566	-	192	768
Other	-	2,720	-	3,844	6,564
Transportation	388	1,735	224	394	2,741
Wildlife	68	413	16	-	497
Other	-	1,341	-	-	1,341
Total	3,272	21,563	14,875	10,787	50,497

Government of Saskatchewan

TABLE 16. Total Expenditures in All Sciences, by Activity and Performer, 1986-87(•)

Activity	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Research and development:							
Current expenditures:							
In-house	2,737	...	...	...	...	...	2,737
Contracts	380	5,014	478	-	4,352	232	10,456
Grants	896	2,269	5,748	1,000	4,671	154	14,738
Research fellowships	-	-	293	-	-	-	293
Sub-total	**4,013**	**7,283**	**6,519**	**1,000**	**9,023**	**386**	**28,224**
Capital expenditures	1,036	...	...	...	...	...	1,036
Related scientific activities:							
Current expenditures	26,257	7,258	3,337	-	883	1,029	38,764
Capital expenditures	129	...	...	...	...	...	129
Total	**31,435**	**14,541**	**9,856**	**1,000**	**9,906**	**1,415**	**68,153**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 17. Total Expenditures in All Sciences, by Department or Agency and Performer, 1986-87(e)

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Advanced Education & Manpower	1,890	497	874	-	-	-	3,261
Agriculture	1,470	5,290	6,662	-	1,123	689	15,234
Archives Board	1,151	-	-	-	-	-	1,151
Assessment Authority	55	-	-	-	-	-	55
Cancer Foundation	450	-	-	-	-	-	450
Consumer & Commercial Affairs	50	-	-	-	-	-	50
Cooperation & Co-op Development	98	-	143	-	-	10	251
Culture & Recreation	478	-	-	-	-	49	527
Economic Development & Trade	126	708	-	-	-	-	834
Education	257	-	50	-	-	101	408
Employment Development Agency	300	-	-	-	-	50	350
Energy & Mines	902	482	210	-	4,499	-	6,093
Environment	1,046	624	200	-	85	18	1,973
Executive Council	-	78	173	-	-	117	368
Finance	1,084	-	-	-	-	-	1,084
Health	7,844	-	878	1,000	-	-	9,722
Highway Traffic Board	73	-	30	-	-	-	103
Highways & Transportation	3,322	867	126	-	20	11	4,346
Indian & Native Affairs Secretariat	40	85	-	-	-	80	205
Justice	1,500	585	-	-	-	-	2,085
Labour	260	-	-	-	-	-	260
Parks & Renewable Resources	1,102	127	27	-	9	3	1,268
Public Service Commission	155	-	-	-	-	5	160
Revenue & Financial Services	218	62	-	-	-	-	280
Rural Development	78	175	-	-	-	-	253
Saskatchewan Crop Insurance Corporation	200	-	-	-	-	-	200
Saskatchewan Housing Corporation	198	-	-	-	-	-	198
Saskatchewan Library	306	-	-	-	-	-	306
Saskatchewan Telephones	109	10	-	-	-	-	119
Saskatchewan Water Corporation	750	80	-	-	-	-	830
Science & Technology	1,495	3,563	368	-	69	-	5,495
Social Services	3,600	690	104	-	-	215	4,609
Supply & Services	365	280	-	-	-	-	645
Tourism & Small Business	96	223	11	-	20	55	405
Urban Affairs	300	115	-	-	-	12	427
Women's Secretariat	67	-	-	-	-	-	67
Vote 35	-	-	-	-	4,081	-	4,081
Total	31,435	14,541	9,856	1,000	9,906	1,415	68,153

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 18. Current Expenditures in All Sciences, by Department or Agency and Activity, 1986-87

Department or Agency	Research & development	Related scientific activities	Total
	($'000)		
Advanced Education	-	3,261	3,261
Agriculture	11,153	4,081	15,234
Archives Board	-	1,151	1,151
Assessment Authority	-	55	55
Cancer Foundation	400	-	400
Consumer & Commercial Affairs	-	50	50
Cooperation & Co-op Development	-	251	251
Culture & Recreation	40	487	527
Economic Development & Trade	-	834	834
Education	-	408	408
Employment Development Agency	-	350	350
Energy & Mines	4,937	1,156	6,093
Environment	200	1,773	1,973
Executive Council	190	178	368
Finance	-	1,084	1,084
Health	3,180	6,394	9,574
Highway Traffic Board	-	103	103
Highways & Transportation	1,143	2,261	3,404
Indian & Native Affairs Secretariat	-	205	205
Justice	-	2,085	2,085
Labour	-	260	260
Parks & Renewable Resources	825	443	1,268
Public Service Commission	-	160	160
Revenue & Financial Services	-	280	280
Rural Development	-	253	253
Saskatchewan Crop Insurance Corporation	5	195	200
Saskatchewan Housing Corporation	-	198	198
Saskatchewan Library	76	230	306
Saskatchewan Water Corporation	80	750	830
Science & Technology	1,715	3,780	5,495
Social Services	169	4,440	4,609
Supply & Services	30	590	620
Telephones	-	119	119
Tourism & Small Business	-	405	405
Urban Affairs	-	427	472
Women's Secretariat	-	67	67
Vote 35	4,081	-	4,081
Total	28,224	38,764	66,988

Government of Saskatchewan

TABLE 19. Current Expenditures on R&D in All Sciences, by Department or Agency and Performer, 1986-87(*)

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Agriculture	532	4,789	4,942	-	581	309	11,153
Cancer Foundation	400	-	-	-	-	-	400
Culture & Recreation	40	-	-	-	-	-	40
Energy & Mines	380	64	210	-	4,283	-	4,937
Environment	-	-	200	-	-	-	200
Executive Council	-	78	112	-	-	-	190
Health	1,430	-	750	1,000	-	-	3,180
Highways & Transportation	464	522	126	-	20	11	1,143
Parks & Renewable Resources	661	127	27	-	9	1	825
Saskatchewan Crop Insurance Corp	5	-	-	-	-	-	5
Saskatchewan Library	76	-	-	-	-	-	76
Saskatchewan Water Corporation	-	80	-	-	-	-	80
Science & Technology	-	1,618	48	-	49	-	1,715
Social Services	-	-	104	-	-	65	169
Supply & Services	25	5	-	-	-	-	30
Vote 35	-	-	-	-	4,081	-	4,081
Total	4,013	7,283	6,519	1,000	9,023	386	28,224

(1) Includes only Provincial Government payments to the SRC.

TABLE 20. Departmental Personnel Engaged in All Scientific Activities, by Department or Agency, 1986-87(e)

Department or Agency	Research & development				Related scientific activities			
	Scientific & professional	Technical	Other	Total	Scientific & professional	Technical	Other	Total
	(person-years)							
Advanced Education & Manpower	-	-	-	-	50	3	-	53
Agriculture	2	-	-	2	20	-	6	26
Archives Board	-	-	-	-	16	3	10	29
Assessment Authority	-	-	-	-	2	-	-	2
Cancer Foundation	-	10	-	10	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	1	-	-	1
Cooperation & Co-op Development	-	-	-	-	1	1	-	2
Culture & Recreation	2	-	-	2	7	3	-	10
Economic Development & Trade	-	-	-	-	4	-	-	4
Education	-	-	-	-	1	-	3	4
Employment Development Agency	-	-	-	-	8	-	1	9
Energy & Mines	2	-	1	3	-	-	-	-
Environment	-	-	-	-	4	18	-	22
Finance	-	-	-	-	24	-	4	28
Health	17	21	4	42	33	56	53	142
Highway Traffic Board	-	-	-	-	2	-	-	2
Highways & Transportation	7	2	1	10	6	30	4	40
Indian & Native Affairs Secretariat	-	-	-	-	1	-	-	1
Justice	-	-	-	-	20	-	14	34
Labour	-	-	-	-	3	-	3	6
Parks & Renewable Resources	15	6	-	21	4	5	-	9
Public Service Commission	-	-	-	-	3	-	-	3
Revenue & Financial Services	-	-	-	-	6	-	-	6
Rural Development	-	-	-	-	1	1	-	2
Saskatchewan Crop Insurance Corporation	-	-	-	-	1	-	2	3
Saskatchewan Housing Corporation	-	-	-	-	6	-	-	6
Saskatchewan Library	2	1	-	3	1	2	1	4
Saskatchewan Telephones	-	-	-	-	2	-	-	2
Saskatchewan Water Corporation	-	-	-	-	5	39	-	44
Science & Technology	-	-	-	-	8	-	11	19
Social Services	-	-	-	-	28	-	-	28
Supply & Services	1	-	-	1	3	7	-	10
Tourism & Small Business	-	-	-	-	3	-	-	3
Urban Affairs	-	-	-	-	6	-	-	6
Women's Secretariat	-	-	-	-	1	-	-	1
Total	48	40	6	94	281	168	112	561

Government of Saskatchewan

TABLE 21. Objectives of Expenditures in All Sciences, by Department or Agency, 1986-87(a)

Department or Agency	Advancement of Science	Communications	Energy & Fuels		Environmental Issues			
			Fossil fuels	Other	Air	Land	Water	Other
	($'000)							
Advanced Education & Manpower	-	611	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Archives Board	-	-	-	-	-	-	-	-
Assessment Authority	-	-	-	-	-	-	-	-
Cancer Foundation	-	-	-	-	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	-	-	-	-
Cooperation & Co-op Development	-	-	-	-	-	-	-	-
Culture & Recreation	40	-	-	-	-	-	-	-
Economic Development & Trade	-	-	-	-	-	-	-	-
Education	-	-	-	-	-	-	-	-
Employment Development Agency	-	-	-	-	-	-	-	-
Energy & Mines	-	-	5,693	-	-	-	-	-
Environment	-	-	-	-	90	897	781	200
Executive Council	178	-	-	78	-	-	-	-
Finance	-	-	-	-	-	-	-	-
Health	-	-	-	-	-	-	-	-
Highway Traffic Board	-	-	-	-	-	-	-	-
Highways & Transportation	-	-	-	-	-	-	-	-
Indian & Native Affairs Secretariat	-	-	-	-	-	-	-	-
Justice	-	-	-	-	-	-	-	-
Labour	-	-	-	-	-	-	-	-
Parks & Renewable Resources	-	-	-	-	-	-	31	-
Public Service Commission	-	-	-	-	-	-	-	-
Revenue & Financial Services	-	-	-	-	-	-	-	-
Rural Development	-	-	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	-	-	-	-	-	-	-	-
Saskatchewan Housing Corporation	-	-	-	-	-	-	-	-
Saskatchewan Library	152	-	-	-	-	-	-	-
Saskatchewan Telephones	-	119	-	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	-	-	-	830	-
Science & Technology	1,382	-	-	-	-	-	-	-
Social Services	-	-	-	-	-	-	-	-
Supply & Services	-	90	-	-	-	10	-	-
Tourism & Small Business	-	-	-	-	-	-	-	-
Urban Affairs	-	-	-	-	-	-	-	-
Women's Secretariat	-	-	-	-	-	-	-	-
Vote 35	261	-	-	257	-	-	-	775
Total	2,013	820	5,693	335	90	907	1,642	975

Government of Saskatchewan

TABLE 21. Objectives of Expenditures in All Sciences, by Department or Agency, 1986-87(*) - Continued

Department or Agency	Health	Industrial and economic development					
		Agriculture	Fisheries	Forestry	Manufacturing	Minerals	Other
	($'000)						
Advanced Education & Manpower	-	-	-	-	-	-	-
Agriculture	-	15,234	-	-	-	-	-
Archives Board	-	-	-	-	-	-	-
Assessment Authority	-	-	-	-	-	-	-
Cancer Foundation	450	-	-	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	-	-	-
Cooperation & Co-op Development	-	-	-	-	-	-	47
Culture & Recreation	-	-	-	-	-	-	-
Economic Development & Trade	-	-	-	-	834	-	-
Education	-	-	-	-	-	-	-
Employment Development Agency	-	-	-	-	-	-	-
Energy & Mines	-	-	-	-	-	400	-
Environment	5	-	-	-	-	-	-
Executive Council	-	112	-	-	-	-	-
Finance	-	-	-	-	-	-	-
Health	9,722	-	-	-	-	-	-
Highway Traffic Board	-	-	-	-	-	-	-
Highways & Transportation	-	-	-	-	-	-	-
Indian & Native Affairs Secretariat	-	-	-	-	-	-	85
Justice	-	-	-	-	-	-	-
Labour	-	-	-	-	-	-	-
Parks & Renewable Resources	-	-	322	282	-	-	-
Public Service Commission	-	-	-	-	-	-	-
Revenue & Financial Services	-	-	-	-	-	-	-
Rural Development	-	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	-	200	-	-	-	-	-
Saskatchewan Housing Corporation	-	-	-	-	-	-	-
Saskatchewan Library	-	-	-	-	-	-	-
Saskatchewan Telephones	-	-	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	-	-	-	-
Science & Technology	-	-	-	-	4,113	-	-
Social Services	104	-	-	-	-	-	-
Supply & Services	-	10	-	-	-	-	480
Tourism & Small Business	-	-	45	-	-	-	360
Urban Affairs	-	-	-	-	-	-	-
Women's Secretariat	-	-	-	-	-	-	-
Vote 35	-	531	-	-	572	787	898
Total	**10,281**	**16,087**	**367**	**282**	**5,519**	**1,187**	**1,870**

Government of Saskatchewan

TABLE 21. Objectives of Expenditures in All Sciences, by Department or Agency 1986-87(*) - Continued

Department or Agency	Social development & related areas					Transportation	Wildlife	Other	Total
	Culture, sport & recreation	Education	Human Resources	Urban & regional studies	Other				
	($'000)								
Advanced Education & Manpower	874	1,770	-	-	6	-	-	-	3,261
Agriculture	-	-	-	-	-	-	-	-	15,234
Archives Board	806	-	-	-	345	-	-	-	1,151
Assessment Authority	-	-	-	55	-	-	-	-	55
Cancer Foundation	-	-	-	-	-	-	-	-	450
Consumer & Commercial Affairs	-	-	-	-	50	-	-	-	50
Cooperation & Co-op Development	-	-	189	-	15	-	-	-	251
Culture & Recreation	480	-	-	-	-	-	7	-	527
Economic Development & Trade	-	-	-	-	-	-	-	-	834
Education	-	408	-	-	-	-	-	-	408
Employment Development Agency	-	-	350	-	-	-	-	-	350
Energy & Mines	-	-	-	-	-	-	-	-	6,093
Environment	-	-	-	-	-	-	-	-	1,973
Executive Council	-	-	-	-	-	-	-	-	368
Finance	-	-	-	-	-	-	-	1,084	1,084
Health	-	-	-	-	-	-	-	-	9,722
Highway Traffic Board	-	-	-	-	-	103	-	-	103
Highways & Transportation	-	-	-	-	-	4,346	-	-	4,346
Indian & Native Affairs Secretariat	-	-	-	-	120	-	-	-	205
Justice	-	-	-	-	2,085	-	-	-	2,085
Labour	-	-	260	-	-	-	-	-	260
Parks & Renewable Resources	134	-	-	-	-	-	499	-	1,268
Public Service Commission	-	-	160	-	-	-	-	-	160
Revenue & Financial Services	-	-	96	-	34	-	-	150	280
Rural Development	-	-	-	21	-	232	-	-	253
Saskatchewan Crop Insurance Corporation	-	-	-	-	-	-	-	-	200
Saskatchewan Housing Corporation	-	-	-	198	-	-	-	-	198
Saskatchewan Library	10	-	-	-	144	-	-	-	306
Saskatchewan Telephones	-	-	-	-	-	-	-	-	119
Saskatchewan Water Corporation	-	-	-	-	-	-	-	-	830
Science & Technology	-	-	-	-	-	-	-	-	3,495
Social Services	-	-	-	-	4,505	-	-	-	4,609
Supply & Services	-	-	-	35	-	20	-	-	645
Tourism & Small Business	-	-	-	-	-	-	-	-	405
Urban Affairs	-	-	-	427	-	-	-	-	427
Women's Secretariat	-	-	-	-	67	-	-	-	67
Vote 35	-	-	-	-	-	-	-	-	4,081
Total	2,304	2,178	1,055	736	7,371	4,701	506	1,234	68,153

Natural Sciences

Government of Saskatchewan

TABLE 22. Total Expenditures in the Natural Sciences, by Activity, 1979-80 to 1986-87

Activity	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Research & development								
Current Expenditures:								
In-house	1,465	1,688	1,951	2,688	2,748	2,392	2,408	2,555
Contracts	408	46	24	649	3,540	4,158	6,734	10,266
Grants	9,819	6,851	7,644	8,418	9,646	10,788	7,829	14,279
Fellowships	14	21	-	50	122	92	281	293
Sub-total	**11,706**	**8,606**	**9,619**	**11,805**	**16,056**	**17,430**	**17,252**	**27,393**
Capital expenditures	96	245	203	99	82	125	218	1,026
Related scientific activities								
Current Expenditures:								
Education support	33	32	226	162	101	110	456	359
Technical surveys	3,966	4,189	4,387	5,469	4,353	3,445	4,169	5,290
Information services	41	187	112	734	2,024	2,368	2,006	3,457
Special services & studies	2,750	3,528	3,893	5,807	6,106	5,589	6,992	9,096
Museum services	349	489	700	82	113	178	171	194
Sub-total	**7,139**	**8,425**	**9,318**	**12,254**	**12,697**	**11,690**	**13,794**	**18,396**
Capital expenditures	205	180	158	175	64	217	120	129
Total	**19,146**	**17,456**	**19,298**	**24,333**	**28,899**	**29,462**	**31,384**	**46,944**

Government of Saskatchewan

TABLE 23. Total Expenditures in the Natural Sciences, by Department or Agency, 1979-80 to 1986-87

Department or Agency	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(a)
	($'000)							
Agriculture	1,712	1,997	4,318	6,622	7,636	6,076	4,916	14,126
Cancer Foundation	...	...	...	241	282	407	447	450
Culture & Recreation	390	541	770	165	166	215	206	226
Energy & Mines	8,946	5,052	2,820	3,623	5,183	4,274	3,437	6,093
Environment	78	517	737	991	687	755	1,773	1,973
Government Insurance Corporation	55	57	62	...	...	...	...	...
Health	2,750	3,760	4,661	4,987	6,379	6,623	6,930	7,045
Highways & Transportation	867	996	1,056	1,443	1,415	1,628	2,412	4,346
Industry & Commerce	164	382	99	368	...	...	...	...
Northern Saskatchewan	303	354	279	...	...	...	...	...
Parks & Renewable Resources	...	...	...	2,208	1,980	1,409	1,362	1,268
Rural Development	...	...	...	166	205	197	200	211
Saskatchewan Crop Insurance Corporation	...	...	...	...	...	100	150	200
Saskatchewan Water Corporation	...	...	...	...	...	755	784	830
Science & Technology	...	...	...	...	640	2,415	3,992	5,495
Supply & Services	...	...	...	...	440	440	650	555
Tourism & Small Business	...	...	...	...	10	62	44	45
Tourism & Renewable Resources	971	1,012	1,405	...	...	...	...	...
Transportation Agency of Saskatchewan	311	60	26	...	...	...	...	...
Vote 35	2,599	2,728	3,065	3,519	3,876	4,106	4,081	4081
Total	**19,146**	**17,456**	**19,298**	**24,333**	**28,899**	**29,462**	**31,384**	**46,944**

Government of Saskatchewan

TABLE 24. Total Expenditures in the Natural Sciences, by Performer, 1979-80 to 1986-87

Performer	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Intramural	8,025	9,383	9,842	12,580	13,960	12,768	13,340	16,333
Industry	6,029	3,229	1,043	2,444	4,271	4,554	4,795	11,140
Universities	1,695	1,761	3,746	4,837	5,754	6,244	4,733	7,815
Hospitals & health organizations	250	200	880	21	88	886	986	1,000
Saskatchewan Research Council(1)	2,934	2,811	3,626	3,834	4,225	4,400	6,962	9,906
Other	213	72	161	617	601	610	568	750
Total	**19,146**	**17,456**	**19,298**	**24,333**	**28,899**	**29,462**	**31,384**	**46,944**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 25. Current Expenditures on R&D in the Natural Sciences, by Department or Agency, 1979-80 to 1986-87

Department or Agency	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Agriculture	1,548	1,997	4,036	4,879	4,554	4,989	4,196	11,153
Cancer Foundation	...	...	...	182	259	355	424	400
Culture & Recreation	41	52	70	52	10	24	25	25
Energy & Mines	6,067	1,994	78	522	3,320	3,378	2,665	4,937
Environment	...	...	...	...	50	55	220	200
Government Insurance Corporation	53	54	57	...	...	...	...	...
Health	625	978	1,468	1,521	2,269	2,536	2,744	2,799
Highways & Transportation	219	147	197	250	257	225	510	1,143
Industry & Commerce	133	382	99	344	...	...	...	...
Northern Saskatchewan	88	4	...	...	...	...	...	...
Parks & Renewable Resources	...	...	...	536	931	621	806	825
Saskatchewan Crop Insurance Corporation	...	...	...	...	...	5	5	5
Saskatchewan Water Corporation	...	...	...	...	...	80	60	80
Science & Technology	...	...	...	...	450	986	1,444	1,715
Supply & Services	...	...	...	...	70	70	72	30
Tourism & Renewable Resources	316	265	548	...	...	...	...	...
Tourism & Small Business	...	...	...	...	10	...	...	...
Transportation Agency of Saskatchewan	17	5	1	...	...	...	...	...
Vote 35	2,599	2,728	3,065	3,519	3,876	4,106	4,081	4,081
Total	**11,706**	**8,606**	**9,619**	**11,805**	**16,056**	**17,430**	**17,252**	**27,393**

Government of Saskatchewan

TABLE 26. Current Expenditures on R&D in the Natural Sciences, by Performer, 1979-80 to 1986-87

Performer	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Intramural	1,479	1,688	1,951	2,700	3,243	2,827	2,763	3,741
Industry	5,824	2,239	154	846	3,249	3,497	2,553	7,205
Universities	1,334	1,679	3,524	4,524	5,380	5,562	4,063	6,103
Hospitals & health organizations	250	200	682	-	82	886	986	1,000
Saskatchewan Research Council(1)	2,685	2,728	3,218	3,555	3,908	4,278	6,649	9,023
Other	134	72	90	180	194	380	238	321
Total	**11,706**	**8,606**	**9,619**	**11,805**	**16,056**	**17,430**	**17,252**	**27,393**

(1) Includes only Provincial Government payments to SRC.

Government of Saskatchewan

TABLE 27. Departmental Personnel Engaged in Scientific Activities in the Natural Sciences, by Activity and Category, 1979-80 to 1986-87

Activity and Category	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	(person-years)							
Research & development:								
Scientific & professional	34	32	29	42	37	37	29	43
Technical	26	31	33	39	36	39	38	37
Other	7	10	7	8	4	7	5	5
**Sub-total ..... **	**67**	**73**	**69**	**89**	**77**	**83**	**72**	**85**
Related scientific activities:								
Scientific & professional	97	58	58	86	60	62	63	59
Technical	92	109	97	156	145	127	133	155
Other	46	60	47	43	31	37	39	40
**Sub-total ..... **	**235**	**227**	**202**	**285**	**236**	**226**	**235**	**254**
Total natural science activities:								
Scientific & professional	131	90	87	128	97	99	92	102
Technical	118	140	130	195	181	166	171	192
Other	53	70	54	51	35	44	44	45
**Total ..... **	**302**	**300**	**271**	**374**	**313**	**309**	**307**	**339**

Government of Saskatchewan

TABLE 28. Total Expenditures in the Natural Sciences, by Sources of Funds, 1985-86

Department or Agency	Departmental budget	Transfers from other departments	Transfers from federal government	From trust funds	From other sources	Total
	($'000)					
Agriculture	4,552	-	-	-	364	4,916
Cancer Foundation	348	-	-	-	99	447
Culture & Recreation	206	-	-	-	-	206
Energy & Mines	148	-	1,436	-	1,853	3,437
Environment	1,773	-	-	-	-	1,773
Health	5,992	-	243	695	-	6,930
Highways & Transportation	2,412	-	-	-	-	2,412
Parks & Renewable Resources	1,159	-	203	-	-	1,362
Rural Development	200	-	-	-	-	200
Saskatchewan Crop Insurance Corporation	150	-	-	-	-	150
Saskatchewan Water Corporation	784	-	-	-	-	784
Science & Technology	1,136	-	-	-	2,856	3,992
Supply & Services	250	200	-	-	200	650
Tourism & Small Business	44	-	-	-	-	44
Vote 35	4,081	-	-	-	-	4,081
Total	**23,235**	**200**	**1,882**	**695**	**5,372**	**31,384**

Government of Saskatchewan

TABLE 29. Total Expenditures in the Natural Sciences, by Activity and Performer, 1985-86

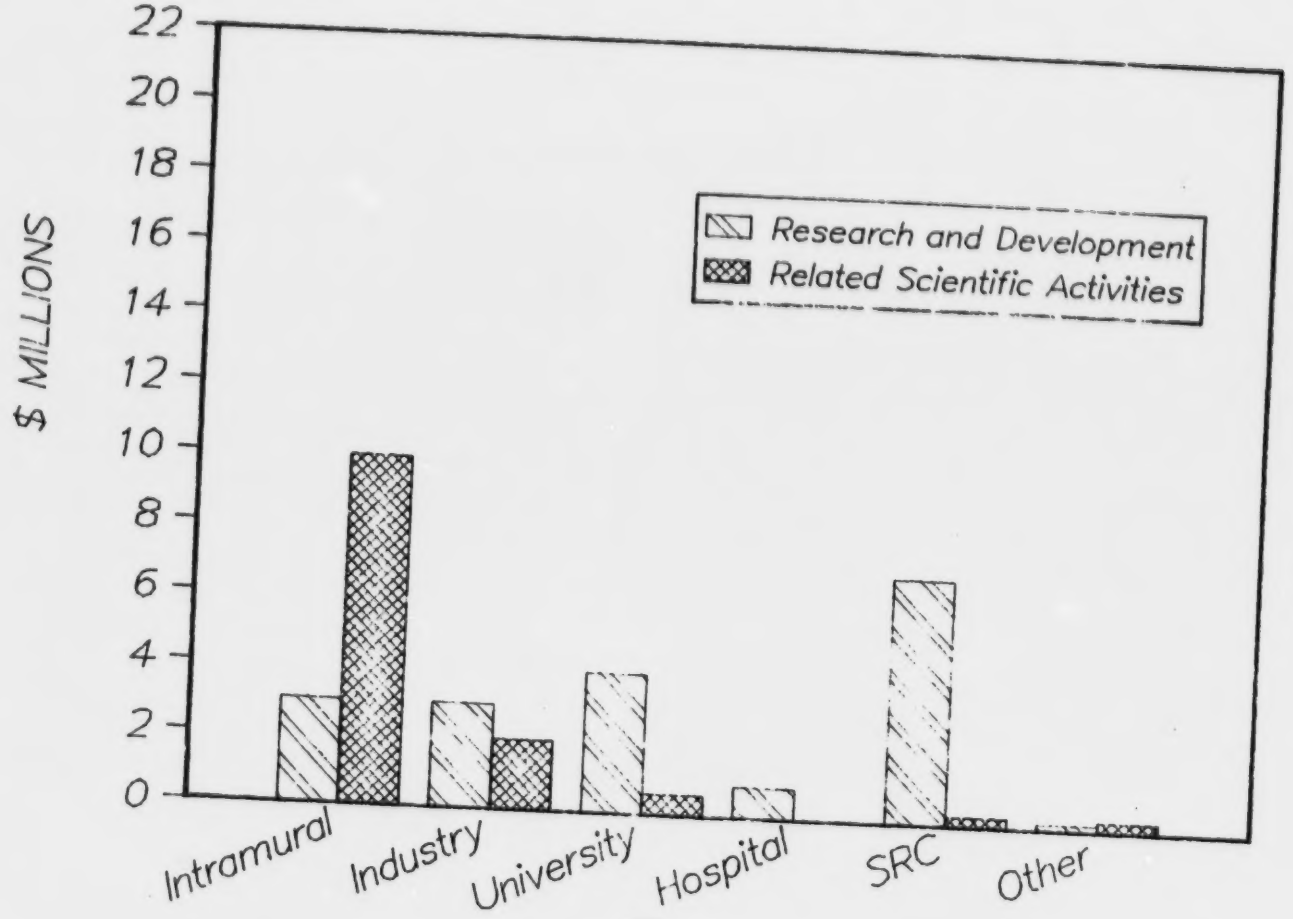
Activity	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Research and development							
Current expenditures:							
In-house	2,408	...	...	...	...	...	2,408
Contracts	255	2,070	1,956	-	2,383	70	6,734
Grants	100	483	1,826	986	4,266	168	7,829
Research fellowships	-	-	281	-	-	-	281
Sub-total	**2,763**	**2,553**	**4,063**	**986**	**6,649**	**238**	**17,252**
Capital expenditures	218	...	...	...	...	...	218
Related scientific activities							
Current expenditures:							
Education support	7	406	50	-	-	-	463
Technical surveys	3,383	354	212	-	160	54	4,163
Information services	1,183	371	341	-	110	-	2,005
Special services & studies	5,666	1,111	67	-	43	276	7,163
Museum services	-	-	-	-	-	-	-
Sub-total	**10,239**	**2,242**	**670**	**-**	**313**	**330**	**13,794**
Capital expenditures	120	...	...	...	...	...	120
Total	**13,340**	**4,795**	**4,733**	**986**	**6,962**	**568**	**31,384**

(1) Includes only Provincial Government payments to the SRC.

Figure 2.

Government of Saskatchewan

Total Expenditures on Natural Science Activities, by Sector of Performance and Activity, 1985–86



Government of Saskatchewan

TABLE 30. Total Expenditures in the Natural Sciences, by Department or Agency and Performer, 1985-86

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Agriculture	584	632	3,159	-	190	351	4,916
Cancer Foundation	447	-	-	-	-	-	447
Culture & Recreation	206	-	-	-	-	-	206
Energy & Mines	562	198	225	-	2,452	-	3,437
Environment	1,112	213	200	-	170	78	1,773
Health	5,203	-	741	986	-	-	6,930
Highways & Transportation	1,949	302	71	-	30	60	2,412
Parks & Renewable Resources	1,009	337	16	-	-	-	1,362
Rural Development	55	145	-	-	-	-	200
Saskatchewan Crop Insurance Corporation	150	-	-	-	-	-	150
Saskatchewan Water Corporation	567	142	1	-	-	74	784
Science & Technology	1,136	2,516	320	-	20	-	3,992
Supply & Services	340	310	-	-	-	-	650
Tourism & Small Business	20	-	-	-	19	5	44
Vote 35	-	-	-	-	4,081	-	4,081
Total	13,340	4,795	4,733	986	6,962	568	31,384

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 31. Current Expenditures in the Natural Sciences, by Department or Agency and Activity, 1985-86

Department or Agency	Research & development	Education support	Technical surveys	Information services	Special services & studies	Museum services	Total
	($'000)						
Agriculture	4,196	-	96	21	603	-	4,916
Cancer Foundation	424	-	-	-	-	-	424
Culture & Recreation	25	-	7	1	-	171	204
Energy & Mines	2,665	-	444	96	232	-	3,437
Environment	220	-	949	-	604	-	1,773
Health	2,744	50	-	3	3,957	-	6,754
Highways & Transportation	510	-	1,136	10	654	-	2,310
Parks & Renewable Resources	806	-	535	7	14	-	1,362
Rural Development	-	-	-	-	190	-	190
Saskatchewan Crop Insurance Corporation	5	-	145	-	-	-	150
Saskatchewan Water Corporation	60	-	484	-	240	-	784
Science & Technology	1,444	406	-	1,768	374	-	3,992
Supply & Services	72	-	373	100	80	-	625
Tourism & Small Business	-	-	-	-	44	-	44
Vote 35	4,081	-	-	-	-	-	4,081
Total	**17,252**	**456**	**4,169**	**2,006**	**6,992**	**171**	**31,046**

Government of Saskatchewan

TABLE 32. Current Expenditures on R&D in the Natural Sciences, by Department or Agency and Performer, 1985-86

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council[1]	Other	Total
	($'000)						
Agriculture	164	629	3,045	-	190	168	4,196
Cancer Foundation	424	-	-	-	-	-	424
Culture & Recreation	25	-	-	-	-	-	25
Energy & Mines	179	35	113	-	2,338	-	2,665
Environment	-	-	200	-	10	10	220
Health	1,116	-	642	986	-	-	2,744
Highways & Transportation	286	87	47	-	30	60	510
Parks & Renewable Resources	453	337	16	-	-	-	806
Saskatchewan Crop Insurance Corporation	5	-	-	-	-	-	5
Saskatchewan Water Corporation	-	60	-	-	-	-	60
Science & Technology	76	1,368	-	-	-	-	1,444
Supply & Services	35	37	-	-	-	-	72
Vote 35	-	-	-	-	4,081	-	4,081
Total	**2,763**	**2,553**	**4,063**	**986**	**6,649**	**238**	**17,252**

[1] Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 33. Detail of Intramural Expenditures in the Natural Sciences, by Department or Agency and Expenditure, 1985-86

Department or Agency	Current expenditures		Capital expenditures	Total
	Personnel costs	Other costs		
	($'000)			
Agriculture	584	-	-	584
Cancer Foundation	365	59	23	447
Culture & Recreation	172	32	2	206
Energy & Mines	164	398	-	562
Environment	625	487	-	1,112
Health	3,550	1,477	176	5,203
Highways & Transportation	1,555	292	102	1,949
Parks & Renewable Resources	738	271	-	1,009
Rural Development	34	11	10	55
Saskatchewan Crop Insurance Corporation	100	50	-	150
Saskatchewan Water Corporation	527	40	-	567
Science & Technology	629	507	-	1,136
Supply & Services	295	20	25	340
Tourism & Small Business	20	-	-	20
Total	**9,358**	**3,644**	**338**	**13,340**

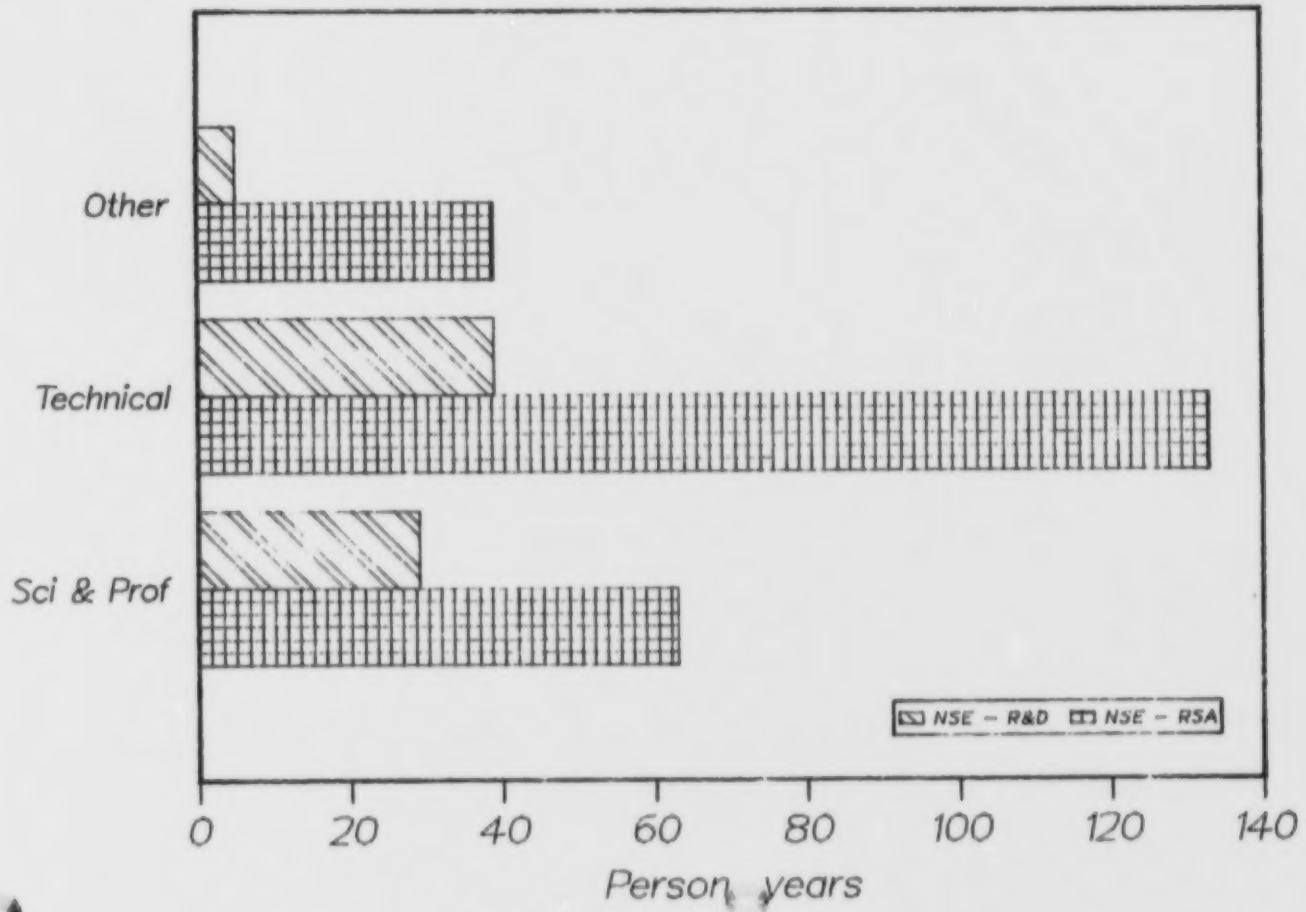
Government of Saskatchewan

TABLE 34. Departmental Personnel Engaged in Scientific Activities in the Natural Sciences, by Department or Agency, 1985-86

Department or Agency	Research & development				Related scientific activities			
	Scientific & professional	Technical	Other	Total	Scientific & professional	Technical	Other	Total
	(person-years)							
Agriculture	2	-	-	2	14	-	-	14
Cancer Foundation	-	14	-	14	-	-	-	-
Culture & Recreation	1	-	-	1	3	1	-	4
Energy & Mines	2	-	1	3	-	-	-	-
Environment	-	-	-	-	8	17	-	25
Health	12	19	3	34	13	54	22	89
Highways & Transportation	3	2	1	6	4	29	5	38
Parks & Renewable Resources	8	4	-	12	5	5	-	10
Rural Development	-	-	-	-	-	1	-	1
Saskatchewan Crop Insurance Corporation	-	-	-	-	1	1	1	3
Saskatchewan Water Corporation	-	-	-	-	4	18	-	22
Science & Technology	1	-	-	1	8	-	11	19
Supply & Services	-	-	-	-	2	7	-	9
Tourism & Small Business	-	-	-	-	1	-	-	1
Total	29	39	5	73	63	133	39	235

Figure 3. Government of Saskatchewan

Departmental Personnel Engaged In Intramural Natural Science Activities, By Activity and Category, 1985–86



Government of Saskatchewan

TABLE 35. Objectives of Expenditures in the Natural Sciences, by Department or Agency, 1985-86

Department or Agency	Advancement of science	Communications	Energy & fuels		Environmental issues				Health
			Fossil fuels	Other	Air	Land	Water	Other	
	($'000)								
Agriculture	-	-	-	-	-	-	-	-	-
Cancer Foundation	-	-	-	-	-	-	-	-	447
Culture & Recreation	25	-	-	-	-	-	-	-	-
Energy & Mines	-	-	2,993	-	-	-	-	-	-
Environment	-	-	-	-	139	444	990	200	-
Health	-	-	-	-	-	-	-	-	6,930
Highways & Transportation	-	-	-	-	-	-	-	-	-
Parks & Renewable Resources	-	7	-	-	-	-	133	-	-
Rural Development	-	-	-	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	-	-	-	-	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	-	-	-	784	-	-
Science & Technology	830	-	-	-	-	-	-	-	-
Supply & Services	-	-	-	-	-	10	-	-	-
Tourism & Small Business	-	-	-	-	-	-	-	-	-
Vote 35	261	-	-	257	-	-	-	775	-
Total	**1,116**	**7**	**2,993**	**257**	**139**	**454**	**1,907**	**975**	**7,377**

Government of Saskatchewan

TABLE 35. Objectives of Expenditures in the Natural Sciences, by Department or Agency, 1985-86 - Continued

Department or Agency	Industrial & economic development					
	Agriculture	Fisheries	Forestry	Manufacturing	Minerals	Other
	($'000)					
Agriculture	4,916	-	-	-	-	-
Cancer Foundation	-	-	-	-	-	-
Culture & Recreation	-	-	-	-	-	-
Energy & Mines	-	-	-	-	444	-
Environment	-	-	-	-	-	-
Health	-	-	-	-	-	-
Highways & Transportation	-	-	-	-	-	-
Parks & Renewable Resources	-	50	414	-	-	-
Rural Development	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	150	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	..	-	-
Science & Technology	-	-	-	3,162	-	-
Supply & Services	10	-	-	-	-	570
Tourism & Small Business	-	44	-	-	-	-
Vote 35	531	-	-	572	787	898
Total	**5,607**	**94**	**414**	**3,734**	**1,231**	**1,468**

Government of Saskatchewan

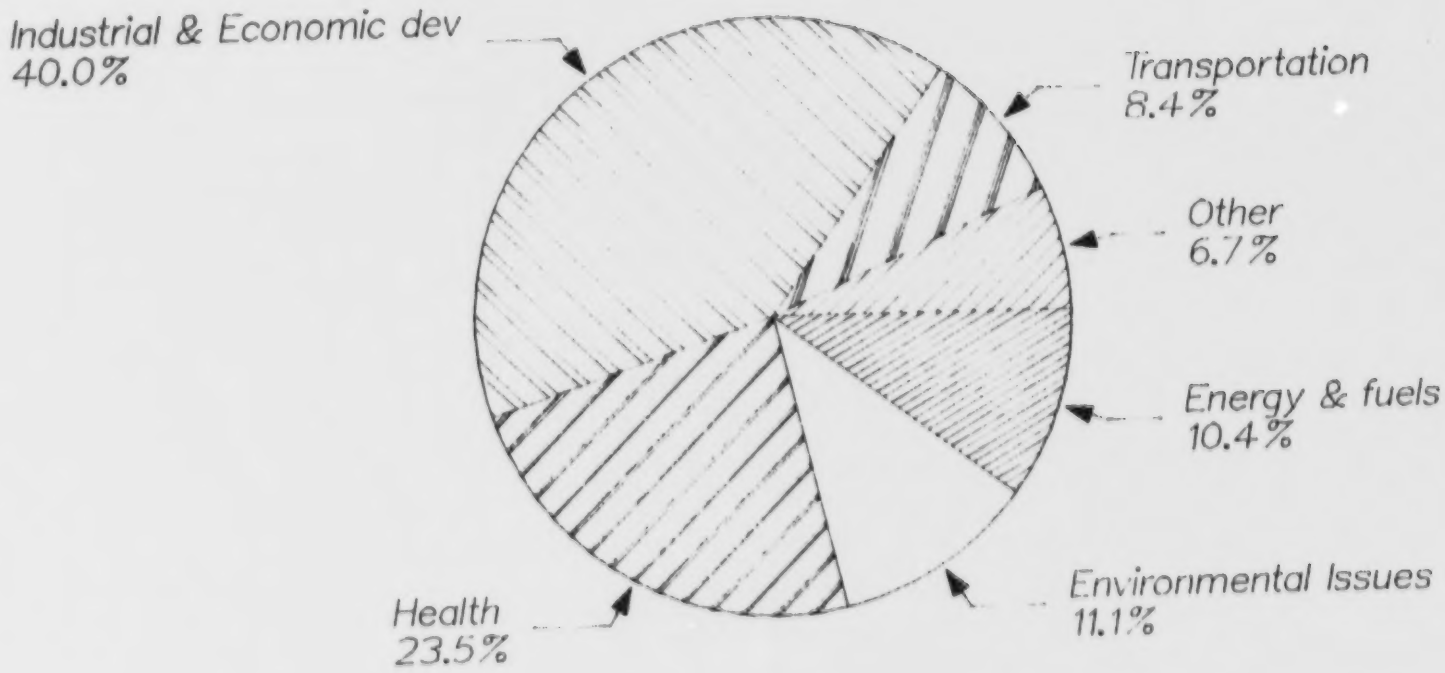
TABLE 35. Objectives of Expenditures in the Natural Sciences, by Department or Agency, 1985-86 - Concluded

Department or Agency	Social development & related areas		Transportation	Wildlife	Total
	Culture, sport & recreation	Urban & regional studies			
	($'000)				
Agriculture	-	-	-	-	4,916
Cancer Foundation	-	-	-	-	447
Culture & Recreation	174	-	-	7	206
Energy & Mines	-	-	-	-	3,437
Environment	-	-	-	-	1,773
Health	-	-	-	-	6,930
Highways & Transportation	-	-	2,412	-	2,412
Parks & Renewable Resources	268	-	-	490	1,362
Rural Development	-	-	200	-	200
Saskatchewan Crop Insurance Corporation	-	-	-	-	150
Saskatchewan Water Corporation	-	-	-	-	784
Science & Technology	-	-	-	-	3,992
Supply & Services	-	40	20	-	650
Tourism & Small Business	-	-	-	-	44
Vote 35	-	-	-	-	4,081
Total	442	40	2,632	497	31,384

Figure 4.

Government of Saskatchewan

Objectives of Natural Science Expenditures, 1985-86



Government of Saskatchewan

TABLE 36. Objectives of Expenditures in the Natural Sciences, by Activity, 1985-86

Objective	Intramural		Extramural		Total
	Research & development	Related scientific activities	Research & development	Related scientific activities	
	($'000)				
Advancement of science	25	530	261	300	1,116
Communication	-	7	-	-	7
Energy & fuels:					
Fossil fuels	179	51	2,486	277	2,993
Other	-	-	257	-	257
Environmental issues:					
Air	-	65	20	54	139
Land	-	318	-	136	454
Water	-	1,439	60	408	1,907
Other	-	-	975	-	975
Health	1,656	3,994	1,628	99	7,377
Industrial & economic development:					
Agriculture	169	575	4,563	300	5,607
Fisheries	10	20	40	24	94
Forestry	229	10	175	-	414
Manufacturing	76	530	1,940	1,188	3,734
Minerals	-	332	787	112	1,231
Other	25	265	935	243	1,468
Social development & related areas:					
Culture, sport & recreation	146	174	122	-	442
Urban & regional studies	10	10	-	20	40
Transportation	388	1,626	224	394	2,632
Wildlife	68	413	16	-	497
Total	**2,981**	**10,359**	**14,489**	**3,555**	**31,384**

Government of Saskatchewan

TABLE 37. Total Expenditures in the Natural Sciences, by Activity and Performer, 1986-87(e)

Activity	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Research & development							
Current expenditures:							
In-house	2,555	...	...	...	...	...	2,555
Contracts	380	4,936	366	-	4,352	232	10,266
Grants(1)	806	2,269	5,444	1,000	4,671	89	14,279
Research fellowships	-	-	293	-	-	-	293
Sub-total	**3,741**	**7,205**	**6,103**	**1,000**	**9,023**	**321**	**27,393**
Capital expenditures	1,026	...	...	...	...	...	1,026
Related scientific activities							
Current expenditures:							
Education support	92	267	-	-	-	-	359
Technical surveys	3,897	531	860	-	-	2	5,290
Information services	1,594	1,355	320	-	188	-	3,457
Special services & studies	5,684	1,782	532	-	695	403	9,096
Museum services	170	-	-	-	-	24	194
Sub-total	**11,437**	**3,935**	**1,712**	**-**	**883**	**429**	**18,396**
Capital expenditures	129	...	...	...	...	...	129
Total	**16,333**	**11,140**	**7,815**	**1,000**	**9,906**	**750**	**46,944**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 38. Total Expenditures in the Natural Sciences, by Department or Agency and Performer, 1986-87(•)

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Agriculture	1,084	4,942	6,288	-	1,123	689	14,126
Cancer Foundation	450	-	-	-	-	-	450
Culture & Recreation	202	-	-	-	-	24	226
Energy & Mines	902	482	210	-	4,499	-	6,093
Environment	1,046	624	200	-	85	18	1,973
Health	5,449	-	596	1,000	-	-	7,045
Highways & Transportation	3,322	867	126	-	20	11	4,346
Parks & Renewable Resources	1,102	127	27	-	9	3	1,268
Rural Development	36	175	-	-	-	-	211
Saskatchewan Crop Insurance Corporation	200	-	-	-	-	-	200
Saskatchewan Water Corporation	750	80	-	-	-	-	830
Science & Technology	1,495	3,563	368	-	69	-	5,495
Supply & Services	275	280	-	-	-	-	555
Tourism & Small Business	20	-	-	-	20	5	45
Vote 35	-	-	-	-	4,081	-	4,081
Total	16,333	11,140	7,815	1,000	9,906	750	46,944

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 39. Current Expenditures in the Natural Sciences, by Department or Agency and Activity, 1986-87(e)

Department or Agency	Research & development	Education support	Technical surveys	Information services	Special services & studies	Museum services	Total
	($'000)						
Agriculture	11,153	109	916	120	1,828	-	14,126
Cancer Foundation	400	-	-	-	-	-	400
Culture & Recreation	25	-	7	-	-	194	226
Energy & Mines	4,937	-	550	182	424	-	6,093
Environment	200	-	989	-	784	-	1,973
Health	2,799	-	-	-	4,108	-	6,907
Highways & Transportation	1,143	-	1,240	10	1,011	-	3,404
Parks & Renewable Resources	825	-	443	-	-	-	1,268
Rural Development	-	-	-	-	211	-	211
Saskatchewan Crop Insurance Corporation	5	-	195	-	-	-	200
Saskatchewan Water Corporation	80	-	600	-	150	-	830
Science & Technology	1,715	250	-	3,070	460	-	5,495
Supply & Services	30	-	350	75	75	-	530
Tourism & Small Business	-	-	-	-	45	-	45
Vote 35	4,081	-	-	-	-	-	4,081
Total	27,393	359	5,290	3,457	9,096	194	45,789

Government of Saskatchewan

TABLE 40. Current Expenditures on R&D in the Natural Sciences, by Department or Agency and Performer, 1986-87(•)

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Agriculture	532	4,789	4,942	-	581	309	11,153
Cancer Foundation	400	-	-	-	-	-	400
Culture & Recreation	25	-	-	-	-	-	25
Energy & Mines	380	64	210	-	4,283	-	4,937
Environment	-	-	200	-	-	-	200
Health	1,249	-	550	1,000	-	-	2,799
Highways & Transportation	464	522	126	-	20	11	1,143
Parks & Renewable Resources	661	127	27	-	9	1	825
Saskatchewan Crop Insurance Corporation	5	-	-	-	-	-	5
Saskatchewan Water Corporation	-	80	-	-	-	-	80
Science & Technology	-	1,618	48	-	49	-	1,715
Supply & Services	25	5	-	-	-	-	30
Vote 35	-	-	-	-	4,081	-	4,081
Total	**3,741**	**7,205**	**6,103**	**1,000**	**9,023**	**321**	**27,393**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 41. Departmental Personnel Engaged in Scientific Activities in the Natural Sciences, by Department or Agency, 1986-87(e)

Department or Agency	Research & development				Related scientific activities			
	Scientific & professional	Technical	Other	Total	Scientific & professional	Technical	Other	Total
	(person-years)							
Agriculture	2	-	-	2	14	-	-	14
Cancer Foundation	-	10	-	10	-	-	-	-
Culture & Recreation	1	-	-	1	2	1	-	3
Energy & Mines	2	-	1	3	-	-	-	-
Environment	-	-	-	-	4	18	-	22
Health	15	19	3	37	12	54	23	89
Highways & Transportation	7	2	1	10	6	30	4	40
Parks & Renewable Resources	15	6	-	21	4	5	-	9
Rural Development	-	-	-	-	-	1	-	1
Saskatchewan Crop Insurance Corporation	-	-	-	-	1	-	2	3
Saskatchewan Water Corporation	-	-	-	-	5	39	-	44
Science & Technology	-	-	-	-	8	-	11	19
Supply & Services	1	-	-	1	1	7	-	8
Tourism & Small Business	-	-	-	-	1	-	-	1
Total	43	37	5	85	58	155	40	253

Government of Saskatchewan

TABLE 42. Objectives of Expenditures in the Natural Sciences, by Department or Agency, 1986-87(•)

Department or Agency	Advancement of science	Energy & fuels		Environmental issues				Health
		Fossil fuels	Other	Air	Land	Water	Other	
	($'000)							
Agriculture	-	-	-	-	-	-	-	-
Cancer Foundation	-	-	-	-	-	-	-	450
Culture & Recreation	25	-	-	-	-	-	-	-
Energy & Mines	-	5,693	-	-	-	-	-	-
Environment	-	-	-	90	897	781	200	5
Health	-	-	-	-	-	-	-	7,045
Highways & Transportation	-	-	-	-	-	-	-	-
Parks & Renewable Resources	-	-	-	-	-	31	-	-
Rural Development	-	-	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	-	-	-	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	-	-	830	-	-
Science & Technology	1,382	-	-	-	-	-	-	-
Supply & Services	-	-	-	-	10	-	-	-
Tourism & Small Business	-	-	-	-	-	-	-	-
Vote 35	261	-	257	-	-	-	775	-
Total	**1,668**	**5,693**	**257**	**90**	**907**	**1,642**	**975**	**7,500**

Government of Saskatchewan

TABLE 42. Objectives of Expenditures in the Natural Sciences by Department or Agency, 1986-87(e) - Continued

Department or Agency	Industrial and economic development					
	Agriculture	Fisheries	Forestry	Manufacturing	Minerals	Other
	($'000)					
Agriculture	14,126	-	-	-	-	-
Cancer Foundation	-	-	-	-	-	-
Culture & Recreation	-	-	-	-	-	-
Energy & Mines	-	-	-	-	-	-
Environment	-	-	-	-	400	-
Health	-	-	-	-	-	-
Highways & Transportation	-	-	-	-	-	-
Parks & Renewable Resources	-	322	282	-	-	-
Rural Development	-	-	-	-	-	-
Saskatchewan Crop Insurance Corporation	200	-	-	-	-	-
Saskatchewan Water Corporation	-	-	-	-	-	-
Science & Technology	-	-	-	-	-	-
Supply & Services	10	-	-	4,113	-	-
Tourism & Small Business	-	45	-	-	-	480
Vote 35	531	-	-	572	787	898
Total	**14,867**	**367**	**282**	**4,685**	**1,187**	**1,378**

Government of Saskatchewan

TABLE 42. Objectives of Expenditures in the Natural Sciences by Department or Agency 1986-87(e) - Concluded

Department or Agency	Social development & related areas		Wildlife	Transportation	Total
	Culture, sport & recreation	Urban & regional studies			
	($'000)				
Agriculture	-	-	-	-	14,126
Cancer Foundation	-	-	-	-	450
Culture & Recreation	194	-	7	-	226
Energy & Mines	-	-	-	-	6,093
Environment	-	-	-	-	1,973
Health	-	-	-	-	7,045
Highways & Transportation	-	-	-	4,346	4,346
Parks & Renewable Resources	134	-	499	-	1,268
Rural Development	-	-	-	211	211
Saskatchewan Crop Insurance Corporation	-	-	-	-	200
Saskatchewan Water Corporation	-	-	-	-	830
Science & Technology	-	-	-	-	5,495
Supply & Services	-	35	-	20	555
Tourism & Small Business	-	-	-	-	45
Vote 35	-	-	-	-	4,081
Total	328	35	506	4,577	46,944

Social Sciences and Humanities

Government of Saskatchewan

TABLE 43. Total Expenditures in the Social Sciences and Humanities, by Activity, 1979-80 to 1986-87

Activity	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Research & development								
Current expenditures:								
In-house	1,013	938	682	128	320	271	288	182
Contracts	58	316	330	117	255	107	85	190
Grants	-	987	275	219	207	298	301	459
Research fellowships	20	17	20	21	-	-	-	-
Sub-total	**1,091**	**2,258**	**1,307**	**485**	**782**	**676**	**674**	**831**
Capital expenditures	1	8	-	-	-	42	3	10
Related scientific activities								
Current expenditures	5,006	6,682	7,492	8,103	10,803	15,630	18,423	20,368
Capital expenditures	229	138	20	65	93	588	13	-
Total	**6,327**	**9,086**	**8,819**	**8,653**	**11,678**	**16,936**	**19,113**	**21,209**

Government of Saskatchewan

TABLE 44. Total Expenditures in the Social Sciences and Humanities, by Department or Agency 1979-80 to 1986-87

Department or Agency	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Advanced Education & Manpower	432	459	534	560	170	1,328	2,538	3,261
Agriculture	617	515	450	944	971	537	995	1,108
Archives Board	521	722	772	872	1,002	920	1,102	1,151
Assessment Authority	...	...	...	...	...	53	55	55
Consumer & Commercial Affairs	6	2	...	75	75	295	50	50
Cooperation & Co-op Development	443	529	168	...	219	224	232	251
Culture & Recreation	160	63	90	139	192	249	301	301
Economic Development & Trade	...	...	...	...	556	647	756	834
Education	61	177	149	197	158	200	322	408
Employment Development Agency	...	...	...	...	...	...	379	350
Executive Council	213	253	299	401	260	538	465	368
Finance	42	...	...	...	...	1,052	1,132	1,084
Health	1,711	2,686	1,947	1,699	2,665	2,685	2,596	2,677
Highway Traffic Board	50	178	97	127	90	84	84	103
Indian & Native Affairs Secretariat	...	...	...	...	188	305	307	205
Industry & Commerce	282	243	423	390	...	...	...	...
Justice	...	...	...	...	1,295	1,495	2,226	2,085
Labour	458	458	655	694	675	212	278	260
Northern Saskatchewan	...	...	175	...	...	...	...	...
Parks & Renewable Resources	...	...	...	...	256	...	...	...
Public Service Commission	...	...	...	...	...	202	215	160
Revenue & Financial Services	...	...	...	...	110	102	228	280
Rural Development	...	146	130	...	...	67	49	42
Saskatchewan Housing Corporation	198	356	371	...	...	318	234	198
Saskatchewan Library	...	...	...	...	...	30	112	306
Saskatchewan Telephones	...	...	...	...	...	...	...	119
Science & Technology	...	...	...	...	12	62	...	...
Social Services	863	1,202	1,421	1,575	1,824	2,892	3,757	4,609
Supply & Services	...	...	...	...	420	1,514	119	90
Tourism & Renewable Resources	1	330	377	...	...	...	...	...
Tourism & Small Business	...	...	...	186	80	202	136	360
Urban Affairs	269	747	761	794	460	785	415	427
Women's Secretariat	...	...	...	...	...	38	30	67
Total	**6,327**	**9,086**	**8,819**	**8,653**	**11,678**	**16,936**	**19,113**	**21,209**

Government of Saskatchewan

TABLE 45. Total Expenditures in the Social Sciences and Humanities, by Performer, 1979-80 to 1986-87

Performer	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Intramural	5,665	6,811	6,396	6,818	9,076	11,583	11,495	15,102
Industry	502	951	1,251	914	1,230	3,112	5,105	3,401
Universities	160	59	468	321	654	788	1,879	2,041
Hospitals & health organizations	-	950	177	119	115	-	-	-
Saskatchewan Research Council(1)	-	19	160	35	2	60	9	-
Other	-	296	367	446	601	1,393	625	665
Total	**6,327**	**9,086**	**8,819**	**8,653**	**11,678**	**16,936**	**19,113**	**21,209**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 46. Current Expenditures on R&D in the Social Sciences and Humanities, by Department or Agency, 1979-80 to 1986-87

Department or Agency	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Advanced Education & Manpower	28	32	20	21	...	...	...	...
Agriculture	24	78	36	43	100	...	...	...
Archives Board	107	32	...	...	...	...	...	...
Consumer & Commercial Affairs	...	...	...	12	12	...	...	...
Cooperation & Co-op Development	60	104	...	...	...	...	...	...
Culture & Recreation	90	83	90	13	8	12	15	15
Executive Council	67	61	65	134	65	181	142	190
Health	674	1,515	752	170	274	310	354	381
Highway Traffic Board	15	50	...	...	...	...	...	...
Parks & Renewable Resources	...	...	...	...	90	...	...	...
Saskatchewan Housing Corporation	...	...	44	...	...	...	...	...
Saskatchewan Library	...	...	...	...	...	...	19	76
Social Services	26	33	...	92	133	141	144	169
Supply & Services	...	...	...	...	100	32	...	...
Tourism & Renewable Resources	...	270	300	...	...	...	...	...
Total	**1,091**	**2,258**	**1,307**	**485**	**782**	**676**	**674**	**831**

Government of Saskatchewan

TABLE 47. Current Expenditures on R&D in the Social Sciences and Humanities, by Performer, 1979-80 to 1986-87

Performer	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	($'000)							
Intramural	1,071	971	682	128	320	271	288	272
Industry	-	255	300	-	130	107	77	78
Universities	20	17	181	159	190	234	269	416
Hospitals & health organizations	-	950	114	119	107	-	-	-
Saskatchewan Research Council(1)	-	-	-	-	-	37	-	-
Other	-	65	30	79	35	27	40	65
Total	**1,091**	**2,258**	**1,307**	**485**	**782**	**676**	**674**	**831**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 48. Departmental Personnel Engaged in Scientific Activities in the Social Sciences and Humanities, by Activity and by Category, 1979-80 to 1986-87

Activity and Category	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87(e)
	(person-years)							
Research & development:								
Scientific & professional	29	25	15	7	7	5	3	5
Technical	15	10	9	1	1	3	4	3
Other	5	5	4	-	-	1	-	1
Sub-total	**49**	**40**	**28**	**8**	**8**	**9**	**7**	**9**
Related scientific activities:								
Scientific & professional	86	95	101	108	134	156	192	223
Technical	19	17	13	16	24	13	17	13
Other	47	45	44	46	69	74	78	72
Sub-total	**152**	**157**	**158**	**170**	**227**	**243**	**287**	**308**
Total social science activities:								
Scientific & professional	115	120	116	115	141	161	195	228
Technical	34	27	22	17	25	16	21	16
Other	52	50	48	46	69	75	78	73
Total	**201**	**197**	**186**	**178**	**235**	**252**	**294**	**317**

Government of Saskatchewan

TABLE 49. Total Expenditures in the Social Sciences and Humanities, by Sources of Funds, 1985-86

Department or Agency	Departmental budget	Transfers from other departments	Transfers from federal government	From trust funds	From other sources	Total
	($'000)					
Advanced Education & Manpower	2,538	-	-	-	-	2,538
Agriculture	980	-	-	-	15	995
Archives Board	867	109	14	13	99	1,102
Assessment Authority	55	-	-	-	-	55
Consumer & Commercial Affairs	50	-	-	-	-	50
Cooperation & Co-op Development	232	-	-	-	-	232
Culture & Recreation	301	-	-	-	-	301
Economic Development & Trade	756	-	-	-	-	756
Education	322	-	-	-	-	322
Employment Development Agency	379	-	-	-	-	379
Executive Council	462	-	3	-	-	465
Finance	1,132	-	-	-	-	1,132
Health	2,183	-	100	301	12	2,596
Highway Traffic Board	84	-	-	-	-	84
Indian & Native Affairs Secretariat	307	-	-	-	-	307
Justice	2,068	-	158	-	-	2,226
Labour	278	-	-	-	-	278
Public Service Commission	215	-	-	-	-	215
Revenue & Financial Services	228	-	-	-	-	228
Rural Development	49	-	-	-	-	49
Saskatchewan Housing Corporation	234	-	-	-	-	234
Saskatchewan Library	112	-	-	-	-	112
Social Services	3,757	-	-	-	-	3,757
Supply & Services	119	-	-	-	-	119
Tourism & Small Business	136	-	-	-	-	136
Urban Affairs	415	-	-	-	-	415
Women's Secretariat	30	-	-	-	-	30
Total	**18,289**	**109**	**275**	**314**	**126**	**19,113**

Government of Saskatchewan

TABLE 50. Total Expenditures in the Social Sciences and Humanities, by Activity and Performer, 1985-86

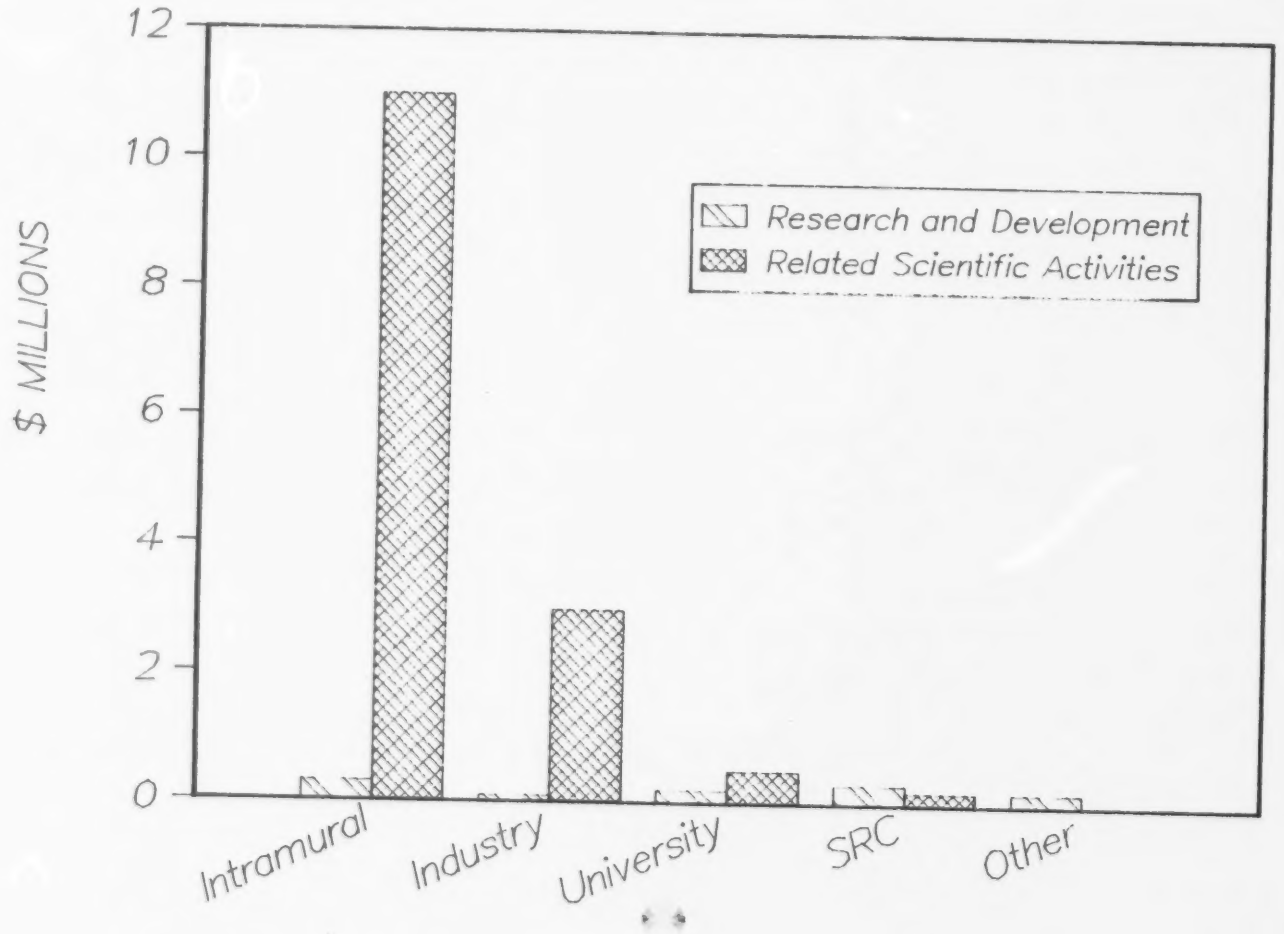
Activity	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Research and development							
Current expenditures:							
In-house	288	...	...	...	...	...	288
Contracts	-	77	8	-	-	-	85
Grants	-	-	261	-	-	40	301
Research fellowships	-	-	-	-	-	-	-
Sub-total	**288**	**77**	**269**	**-**	**-**	**40**	**674**
Capital expenditures	3	...	...	...	...	...	3
Related scientific activities							
Current expenditures	11,191	5,028	1,610	-	9	585	18,423
Capital expenditures	13	...	...	...	...	...	13
Total	**11,495**	**5,105**	**1,879**	**-**	**9**	**625**	**19,113**

(1) Includes only Provincial Government payments to the SRC.

Figure 5.

Government of Saskatchewan

Total Expenditures on Social Science Activities, by Sector of Performance and Activity, 1985--86



Government of Saskatchewan

TABLE 51. Total Expenditures in the Social Sciences and Humanities, by Department or Agency and Performer, 1985-86

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Advanced Education & Manpower	1,513	151	874	-	-	-	2,538
Agriculture	346	381	216	-	8	44	995
Archives Board	1,102	-	-	-	-	-	1,102
Assessment Authority	55	-	-	-	-	-	55
Consumer & Commercial Affairs	50	-	-	-	-	-	50
Cooperation & Co-op Development	98	-	130	-	-	4	232
Culture & Recreation	276	-	-	-	-	25	301
Economic Development & Trade	126	630	-	-	-	-	756
Education	168	-	119	-	-	35	322
Employment Development Agency	316	63	-	-	-	-	379
Executive Council	222	77	69	-	-	97	465
Finance	1,132	-	-	-	-	-	1,132
Health	2,233	-	363	-	-	-	2,596
Highway Traffic Board	84	-	-	-	-	-	84
Indian & Native Affairs Secretariat	39	64	-	-	-	204	307
Justice	1,528	698	-	-	-	-	2,226
Labour	278	-	-	-	-	-	278
Public Service Commission	215	-	-	-	-	-	215
Revenue & Financial Services	181	47	-	-	-	-	228
Rural Development	49	-	-	-	-	-	49
Saskatchewan Housing Corporation	177	56	-	-	1	-	234
Saskatchewan Library	112	-	-	-	-	-	112
Social Services	696	2,760	104	-	-	197	3,757
Supply & Services	119	-	-	-	-	-	119
Tourism & Small Business	50	75	4	-	-	7	136
Urban Affairs	300	103	-	-	-	12	415
Women's Secretariat	30	-	-	-	-	-	30
Total	**11,495**	**5,105**	**1,879**	**-**	**9**	**625**	**19,113**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 52. Current Expenditures in the Social Science and Humanities, by Department or Agency and Activity, 1985-86

Department or Agency	Research & development	Related scientific activities	Total
	($'000)		
Advanced Education & Manpower	-	2,538	2,538
Agriculture	-	995	995
Archives Board	-	1,102	1,102
Assessment Authority	-	55	55
Consumer & Commercial Affairs	-	50	50
Cooperation & Co-op Development	-	232	232
Culture & Recreation	15	277	292
Economic Development & Trade	-	756	756
Education	-	322	322
Employment Development Agency	-	375	375
Executive Council	142	323	465
Finance	-	1,132	1,132
Health	354	2,239	2,593
Highway Traffic Board	-	84	84
Indian & Native Affairs Secretariat	-	307	307
Justice	-	2,226	2,226
Labour	-	278	278
Public Service Commission	-	215	215
Revenue & Financial Services	-	228	228
Rural Development	-	49	49
Saskatchewan Housing Corporation	-	234	234
Saskatchewan Library	19	93	112
Social Services	144	3,613	3,757
Supply & Services	-	119	119
Tourism & Small Business	-	136	136
Urban Affairs	-	415	415
Women's Secretariat	-	30	30
Total	**674**	**18,423**	**19,097**

Government of Saskatchewan

TABLE 53. Current Expenditures on R&D in the Social Sciences and Humanities, by Department or Agency and Performer, 1985-86

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Culture & Recreation	15	-	-	-	-	-	15
Executive Council	57	77	8	-	-	-	142
Health	197	-	157	-	-	-	354
Saskatchewan Library	19	-	-	-	-	-	19
Social Services	-	-	104	-	-	40	144
Total	**288**	**77**	**269**	**-**	**-**	**40**	**674**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 54. Detail of Intramural Expenditures in the Social Sciences and Humanities, by Department or Agency and Expenditure, 1985-86

Department or Agency	Current expenditures		Capital expenditures	Total
	Personnel costs	Other costs		
	($'000)			
Advanced Education & Manpower	1,313	200	-	1,513
Agriculture	346	-	-	346
Archives Board	833	269	-	1,102
Assessment Authority	55	-	-	55
Consumer & Commercial Affairs	50	-	-	50
Cooperation & Co-op Development	98	-	-	98
Culture & Recreation	234	33	9	276
Economic Development & Trade	126	-	-	126
Education	150	18	-	168
Employment Development Agency	296	16	4	316
Executive Council	152	70	-	222
Finance	990	142	-	1,132
Health	1,696	534	3	2,233
Highway Traffic Board	80	4	-	84
Indian & Native Affairs Secretariat	39	-	-	39
Justice	1,256	272	-	1,528
Labour	159	119	-	278
Public Service Commission	215	-	-	215
Revenue & Financial Services	181	-	-	181
Rural Development	49	-	-	49
Saskatchewan Housing Corporation	159	18	-	177
Saskatchewan Library	89	23	-	112
Social Services	602	94	-	696
Supply & Services	119	-	-	119
Tourism & Small Business	50	-	-	50
Urban Affairs	270	30	-	300
Women's Secretariat	30	-	-	30
Total	9,637	1,842	16	11,495

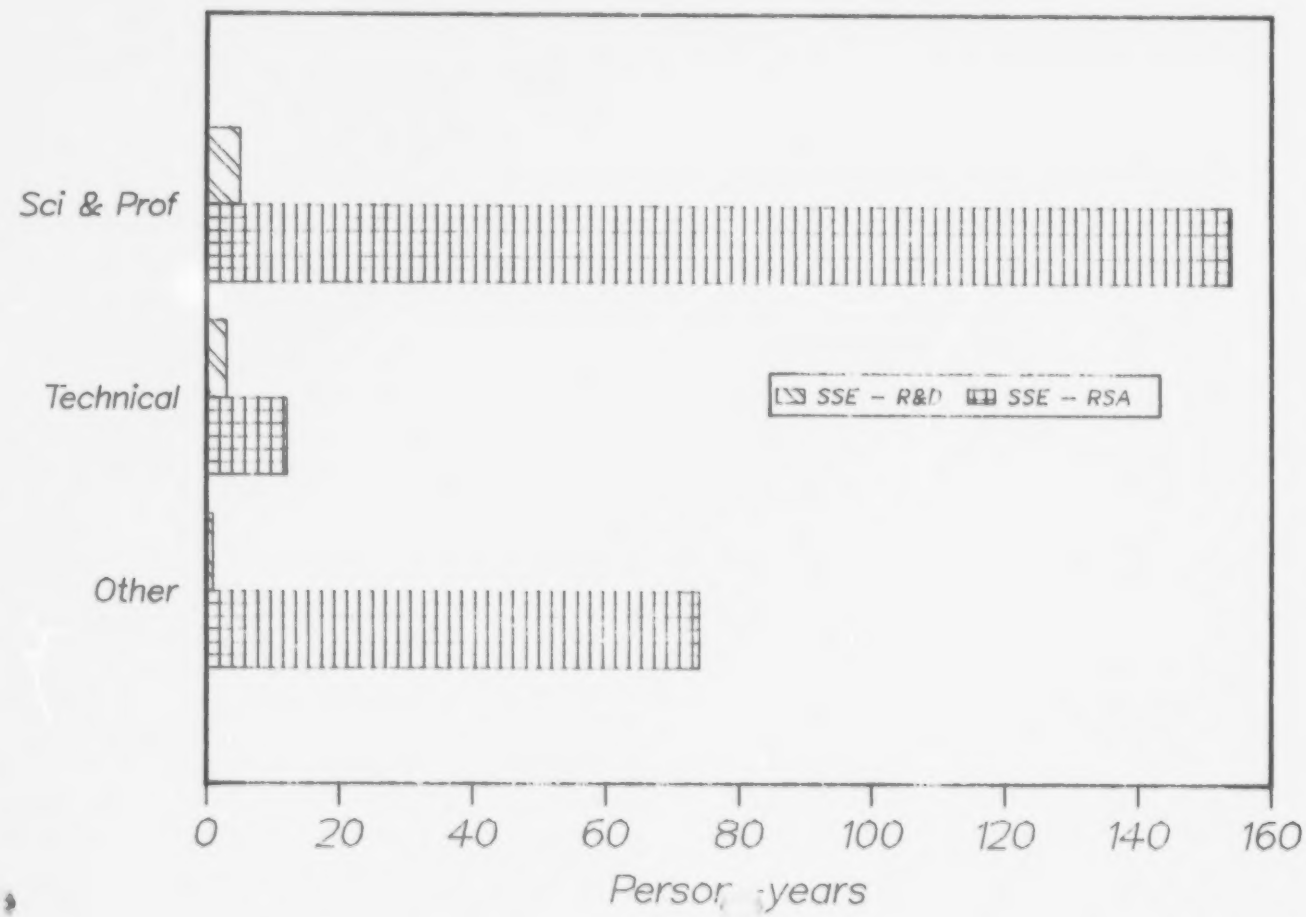
Government of Saskatchewan

TABLE 55. Departmental Personnel Engaged in Scientific Activities in the Social Sciences and Humanities, by Department or Agency, 1985-86

Department or Agency	Research & development				Related scientific activities			
	Scientific & professional	Technical	Other	Total	Scientific & professional	Technical	Other	Total
	(person-years)							
Advanced Education & Manpower	-	-	-	-	29	2	-	31
Agriculture	-	-	-	-	5	-	6	11
Archives Board	-	-	-	-	16	3	13	32
Assessment Authority	-	-	-	-	2	-	-	2
Consumer & Commercial Affairs	-	-	-	-	1	-	-	1
Cooperation & Co-op Development	-	-	-	-	1	1	-	2
Culture & Recreation	1	-	-	1	5	2	-	7
Economic Development & Trade	-	-	-	-	4	-	-	4
Education	-	-	-	-	1	-	3	4
Employment Development Agency	-	-	-	-	7	-	1	8
Executive Council	1	1	-	2	2	1	1	4
Finance	-	-	-	-	24	-	4	28
Health	1	3	-	4	21	2	31	54
Highway Traffic Board	-	-	-	-	1	-	1	2
Indian & Native Affairs Secretariat	-	-	-	-	1	-	-	1
Justice	-	-	-	-	20	5	14	39
Labour	-	-	-	-	3	-	3	6
Public Service Commission	-	-	-	-	5	-	-	5
Revenue & Financial Services	-	-	-	-	5	-	-	5
Rural Development	-	-	-	-	1	-	-	1
Saskatchewan Housing Corporation	-	-	-	-	6	-	-	6
Saskatchewan Library	-	-	-	-	1	1	-	2
Social Services	-	-	-	-	20	-	-	20
Supply & Services	-	-	-	-	3	-	-	3
Tourism & Small Business	-	-	-	-	1	-	1	2
Urban Affairs	-	-	-	-	6	-	-	6
Women's Secretariat	-	-	-	-	1	-	-	1
Total	3	4	-	7	192	17	78	287

Figure 6. Government of Saskatchewan

Departmental Personnel Engaged In Intramural Social Science Activities, By Activity and Category, 1985--86



Government of Saskatchewan

TABLE 56. Objectives of Expenditures in the Social Sciences and Humanities, by Department or Agency, 1985-86

Department or Agency	Advancement of science	Communications	Energy & fuels		
			Conservation	Fossil fuels	Renewable resources
	($'000)				
Advanced Education & Manpower	-	306	-	-	-
Agriculture	-	-	-	-	-
Archives Board	-	-	-	-	-
Assessment Authority	-	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	-
Cooperation & Co-op Development	-	-	-	-	-
Culture & Recreation	15	-	-	-	-
Economic Development & Trade	-	-	-	-	-
Education	-	-	-	-	-
Employment Development Agency	-	-	-	-	-
Executive Council	272	-	10	15	15
Finance	-	-	-	-	-
Health	-	-	-	-	-
Highway Traffic Board	-	-	-	-	-
Indian & Native Affairs Secretariat	-	6	-	-	-
Justice	-	216	-	-	-
Labour	-	-	-	-	-
Public Service Commission	-	-	-	-	-
Revenue & Financial Services	-	-	-	-	-
Rural Development	-	-	-	-	-
Saskatchewan Housing Corporation	-	-	-	-	-
Saskatchewan Library	38	-	-	-	-
Social Services	-	-	-	-	-
Supply & Services	30	-	-	-	-
Tourism & Small Business	-	-	-	-	-
Urban Affairs	-	-	-	-	-
Women's Secretariat	-	-	-	-	-
Total	**355**	**528**	**10**	**15**	**15**

Government of Saskatchewan

TABLE 56. Objectives of Expenditures in the Social Sciences and Humanities, by Department or Agency, 1985-86 - Continued

Department or Agency	Health	Industrial & economic development			
		Agriculture	Forestry	Manufacturing	Other
	($'000)				
Advanced Education & Manpower	-	7	-	-	-
Agriculture	-	995	-	-	-
Archives Board	-	-	-	-	-
Assessment Authority	-	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	-
Cooperation & Co-op Development	-	10	-	-	39
Culture & Recreation	-	-	-	-	-
Economic Development & Trade	-	-	-	756	-
Education	-	-	-	-	-
Employment Development Agency	-	-	-	-	-
Executive Council	-	35	10	-	-
Finance	-	-	-	-	-
Health	2,590	-	-	-	-
Highway Traffic Board	-	-	-	-	-
Indian & Native Affairs Secretariat	-	-	-	-	63
Justice	-	-	-	-	-
Labour	-	-	-	-	-
Public Service Commission	-	-	-	-	-
Revenue & Financial Services	-	-	-	-	-
Rural Development	-	-	-	-	-
Saskatchewan Housing Corporation	-	-	-	-	-
Saskatchewan Library	-	-	-	-	-
Social Services	144	-	-	-	-
Supply & Services	-	-	-	-	-
Tourism & Small Business	-	-	-	-	136
Urban Affairs	-	-	-	-	-
Women's Secretariat	-	-	-	-	-
Total	2,740	1,047	10	756	238

Government of Saskatchewan

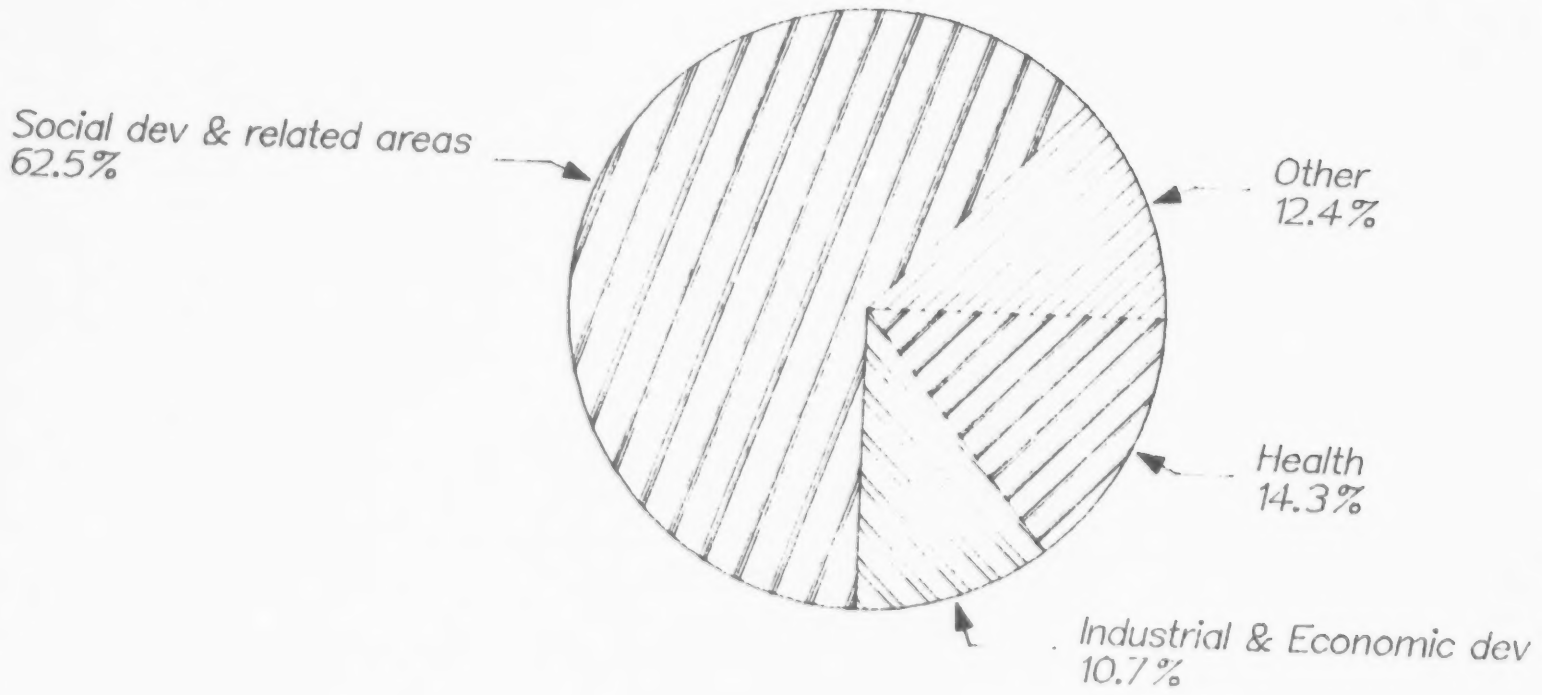
TABLE 56. Objectives of Expenditures in the Social Sciences and Humanities, by Department or Agency, 1985-86 - Concluded

Department or Agency	Social development & related areas					Transportation	Other	Total
	Culture, sport & recreation	Education	Human resources	Urban & regional studies	Other			
	($'000)							
Advanced Education & Manpower	874	1,303	-	-	48	-	-	2,538
Agriculture	-	-	-	-	-	-	-	995
Archives Board	771	-	-	-	331	-	-	1,102
Assessment Authority	-	-	-	55	-	-	-	55
Consumer & Commercial Affairs	-	-	-	-	50	-	-	50
Cooperation & Co-op Development	-	-	148	-	35	-	-	232
Culture & Recreation	286	-	-	-	-	-	-	301
Economic Development & Trade	-	-	-	-	-	-	-	756
Education	-	322	-	-	-	-	-	322
Employment Development Agency	-	-	379	-	-	-	-	379
Executive Council	-	-	-	-	108	-	-	465
Finance	-	-	-	-	-	-	1,132	1,132
Health	-	-	-	-	-	-	-	2,596
Highway Traffic Board	-	-	-	-	-	84	-	84
Indian & Native Affairs Secretariat	-	-	-	-	238	-	-	307
Justice	-	-	-	-	2,010	-	-	2,226
Labour	-	-	278	-	-	-	-	278
Public Service Commission	-	-	215	-	-	-	-	215
Revenue & Financial Services	-	-	81	-	27	-	120	228
Rural Development	-	-	-	24	-	25	-	49
Saskatchewan Housing Corporation	-	-	-	234	-	-	-	234
Saskatchewan Library	-	-	-	-	74	-	-	112
Social Services	-	-	-	-	3,613	-	-	3,757
Supply & Services	-	-	-	-	-	-	89	119
Tourism & Small Business	-	-	-	-	-	-	-	136
Urban Affairs	-	-	-	415	-	-	-	415
Women's Secretariat	-	-	-	-	30	-	-	30
Total	**1,931**	**1,625**	**1,101**	**728**	**6,564**	**109**	**1,341**	**19,113**

Figure 7.

Government of Saskatchewan

Objectives of Social Science Expenditures, 1985–86



Government of Saskatchewan

TABLE 57. Objectives of Expenditures in the Social Sciences and Humanities, by Activity, 1985-86

Objective	Intramural		Extramural		Total
	Research & development	Related scientific activities	Research & development	Related scientific activities	
	($'000)				
Advancement of science	91	106	-	158	355
Communications	-	408	-	120	528
Energy & fuels:					
Conservation	-	-	10	-	10
Fossil fuels	-	-	15	-	15
Renewable resources	-	-	15	-	15
Health	200	2,033	301	206	2,740
Industrial & economic development:					
Agriculture	-	356	35	656	1,047
Forestry	-	-	10	-	10
Manufacturing	-	126	-	630	756
Other	-	89	-	149	238
Social development & related areas:					
Culture, sport & recreation	-	1,032	-	899	1,931
Education	-	1,471	-	154	1,625
Human resources	-	857	-	244	1,101
Urban & regional studies	-	379	-	115	494
Other	-	2,897	-	3,901	6,798
Transportation	-	109	-	-	109
Other	-	1,341	-	-	1,341
Total	291	11,204	386	7,232	19,113

Government of Saskatchewan

TABLE 58. Total Expenditures in the Social Sciences and Humanities, by Activity and Performer, 1986-87(e)

Activity	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Research and development							
Current expenditures:							
In-house	182	...	...	...	...	...	182
Contracts	-	78	112	-	-	-	190
Grants	90	-	304	-	-	65	459
Research fellowships	-	-	-	-	-	-	-
Sub-total	**272**	**78**	**416**	**-**	**-**	**65**	**831**
Capital expenditures	10	...	...	...	...	...	10
Related scientific activities							
Current expenditures	14,820	3,323	1,625	-	-	600	20,368
Capital expenditures	-	...	...	...	...	...	-
Total	15,102	3,401	2,041	-	-	665	21,209

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 59. Total Expenditures in the Social Sciences and Humanities, by Department or Agency and Performer, 1986-87(*)

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Advanced Education & Manpower	1,890	497	874	-	-	-	3,261
Agriculture	386	348	374	-	-	-	1,108
Archives Board	1,151	-	-	-	-	-	1,151
Assessment Authority	55	-	-	-	-	-	55
Consumer & Commercial Affairs	50	-	-	-	-	-	50
Cooperation & Co-op Development	98	-	143	-	-	10	251
Culture & Recreation	276	-	-	-	-	25	301
Economic Development & Trade	126	708	-	-	-	-	834
Education	257	-	50	-	-	101	408
Employment Development Agency	300	-	-	-	-	50	350
Executive Council	-	78	173	-	-	117	368
Finance	1,084	-	-	-	-	-	1,084
Health	2,395	-	282	-	-	-	2,677
Highway Traffic Board	73	-	30	-	-	-	103
Indian & Native Affairs Secretariat	40	85	-	-	-	80	205
Justice	1,500	585	-	-	-	-	2,085
Labour	260	-	-	-	-	-	260
Public Service Commission	155	-	-	-	-	5	160
Revenue & Financial Services	218	62	-	-	-	-	280
Rural Development	42	-	-	-	-	-	42
Saskatchewan Housing Corporation	198	-	-	-	-	-	198
Saskatchewan Library	306	-	-	-	-	-	306
Saskatchewan Telephones	109	10	-	-	-	-	119
Social Services	3,600	690	104	-	-	215	4,609
Supply & Services	90	-	-	-	-	-	90
Tourism & Small Business	76	223	11	-	-	50	360
Urban Affairs	300	115	-	-	-	12	427
Women's Secretariat	67	-	-	-	-	-	67
Total	15,102	3,401	2,041	-	-	665	21,209

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 60. Current Expenditures in the Social Science and Humanities, by Department or Agency, 1986-87

Department or Agency	Research & development	Related scientific activities	Total
	($'000)		
Advanced Education & Manpower	-	3,261	3,261
Agriculture	-	1,108	1,108
Archives Board	-	1,151	1,151
Assessment Authority	-	55	55
Consumer & Commercial Affairs	-	50	50
Cooperation & Co-op Development	-	251	251
Culture & Recreation	15	286	301
Economic Development & Trade	-	834	834
Education	-	408	408
Employment Development Agency	-	350	350
Executive Council	190	178	368
Finance	-	1,084	1,084
Health	381	2,286	2,667
Highway Traffic Board	-	103	103
Indian & Native Affairs Secretariat	-	205	205
Justice	-	2,085	2,085
Labour	-	260	260
Public Service Commission	-	160	160
Revenue & Financial Services	-	280	280
Rural Development	-	42	42
Saskatchewan Housing Corporation	-	198	198
Saskatchewan Library	76	230	306
Social Services	169	4,440	4,609
Supply & Services	-	90	90
Telephones	-	119	119
Tourism & Small Business	-	360	360
Urban Affairs	-	427	427
Women's Secretariat	-	67	67
Total	831	20,368	21,199

Government of Saskatchewan

TABLE 61. Current Expenditures on R&D in the Social Sciences and Humanities, by Department or Agency and Performer, 1986-87(e)

Department or Agency	Intramural	Industry	Universities	Hospitals & health organizations	Saskatchewan Research Council(1)	Other	Total
	($'000)						
Culture & Recreation	15	-	-	-	-	-	15
Executive Council	-	78	112	-	-	-	190
Health	181	-	200	-	-	-	381
Saskatchewan Library	76	-	-	-	-	-	76
Social Services	-	-	104	-	-	65	169
Total	**272**	**78**	**416**	**-**	**-**	**65**	**831**

(1) Includes only Provincial Government payments to the SRC.

Government of Saskatchewan

TABLE 62. Departmental Personnel Engaged in Scientific Activities in the Social Sciences and Humanities, by Department or Agency, 1986-87(*)

Department or Agency	Research & development				Related scientific activities			
	Scientific & professional	Technical	Other	Total	Scientific & professional	Technical	Other	Total
	(person-years)							
Advanced Education & Manpower	-	-	-	-	50	3	-	53
Agriculture	-	-	-	-	6	-	6	12
Archives Board	-	-	-	-	16	3	10	29
Assessment Authority	-	-	-	-	2	-	-	2
Consumer & Commercial Affairs	-	-	-	-	1	-	-	1
Cooperation & Co-op Development	-	-	-	-	1	1	-	2
Culture & Recreation	1	-	-	1	5	2	-	7
Economic Development & Trade	-	-	-	-	4	-	-	4
Education	-	-	-	-	1	-	3	4
Employment Development Agency	-	-	-	-	8	-	1	9
Finance	-	-	-	-	24	-	4	28
Health	2	2	1	5	21	2	30	53
Highway Traffic Board	-	-	-	-	2	-	-	2
Indian & Native Affairs Secretariat	-	-	-	-	1	-	-	1
Justice	-	-	-	-	20	-	14	34
Labour	-	-	-	-	3	-	3	6
Public Service Commission	-	-	-	-	3	-	-	3
Revenue & Financial Services	-	-	-	-	6	-	-	6
Rural Development	-	-	-	-	1	-	-	1
Saskatchewan Housing Corporation	-	-	-	-	6	-	-	6
Saskatchewan Library	2	1	-	3	1	2	1	4
Saskatchewan Telephones	-	-	-	-	2	-	-	2
Social Services	-	-	-	-	28	-	-	28
Supply & Services	-	-	-	-	2	-	-	2
Tourism & Small Business	-	-	-	-	2	-	-	2
Urban Affairs	-	-	-	-	6	-	-	6
Women's Secretariat	-	-	-	-	1	-	-	1
Total	**5**	**3**	**1**	**9**	**223**	**13**	**72**	**308**

Government of Saskatchewan

TABLE 63. Objectives of Expenditures in the Social Sciences and Humanities, by Department or Agency, 1986-87(a)

Department or Agency	Advancement of Science	Communications	Energy & fuels	Health	Industrial & economic development		
			Other		Agriculture	Manufacturing	Other
	($'000)						
Advanced Education & Manpower	-	611	-	-	-	-	-
Agriculture	-	-	-	-	1,108	-	-
Archives Board	-	-	-	-	-	-	-
Assessment Authority	-	-	-	-	-	-	-
Consumer & Commercial Affairs	-	-	-	-	-	-	-
Cooperation & Co-op Development	-	-	-	-	-	-	47
Culture & Recreation	15	-	-	-	-	-	-
Economic Development & Trade	-	-	-	-	-	834	-
Education	-	-	-	-	-	-	-
Employment Development Agency	-	-	-	-	-	-	-
Executive Council	178	-	78	-	112	-	-
Finance	-	-	-	-	-	-	-
Health	-	-	-	2,677	-	-	-
Highway Traffic Board	-	-	-	-	-	-	-
Indian & Native Affairs Secretariat	-	-	-	-	-	-	85
Justice	-	-	-	-	-	-	-
Labour	-	-	-	-	-	-	-
Public Service Commission	-	-	-	-	-	-	-
Revenue & Financial Services	-	-	-	-	-	-	-
Rural Development	-	-	-	-	-	-	-
Saskatchewan Housing Corporation	-	-	-	-	-	-	-
Saskatchewan Library	152	-	-	-	-	-	-
Saskatchewan Telephones	-	119	-	-	-	-	-
Social Services	-	-	-	104	-	-	-
Supply & Services	-	90	-	-	-	-	-
Tourism & Small Business	-	-	-	-	-	-	360
Urban Affairs	-	-	-	-	-	-	-
Women's Secretariat	-	-	-	-	-	-	-
Total	**345**	**820**	**78**	**2,781**	**1,220**	**834**	**492**

Government of Saskatchewan

TABLE 63. Objectives of Expenditures in the Social Sciences and Humanities, by Department or Agency, 1986-87(e) - Concluded

Department or Agency	Social development & related areas					Transportation	Other	Total
	Culture, sport & recreation	Education	Human resources	Urban & regional studies	Other			
	($'000)							
Advanced Education & Manpower	874	1,770	-	-	6	-	-	3,261
Agriculture	-	-	-	-	-	-	-	1,108
Archives Board	806	-	-	-	345	-	-	1,151
Assessment Authority	-	-	-	55	-	-	-	55
Consumer & Commercial Affairs	-	-	-	-	50	-	-	50
Cooperation & Co-op Development	-	-	189	-	15	-	-	251
Culture & Recreation	286	-	-	-	-	-	-	301
Economic Development & Trade	-	-	-	-	-	-	-	834
Education	-	408	-	-	-	-	-	408
Employment Development Agency	-	-	350	-	-	-	-	350
Executive Council	-	-	-	-	-	-	-	368
Finance	-	-	-	-	-	-	1,084	1,084
Health	-	-	-	-	-	-	-	2,677
Highway Traffic Board	-	-	-	-	-	103	-	103
Indian & Native Affairs Secretariat	-	-	-	-	120	-	-	205
Justice	-	-	-	-	2,085	-	-	2,085
Labour	-	-	260	-	-	-	-	260
Public Service Commission	-	-	160	-	-	-	-	160
Revenue & Financial Services	-	-	96	-	34	-	150	280
Rural Development	-	-	-	21	-	21	-	42
Saskatchewan Housing Corporation	-	-	-	198	-	-	-	198
Saskatchewan Library	10	-	-	-	144	-	-	306
Saskatchewan Telephones	-	-	-	-	-	-	-	119
Social Services	-	-	-	-	4,505	-	-	4,609
Supply & Services	-	-	-	-	-	-	-	90
Tourism & Small Business	-	-	-	-	-	-	-	360
Urban Affairs	-	-	-	427	-	-	-	427
Women's Secretariat	-	-	-	-	67	-	-	67
Total	**1,976**	**2,178**	**1,055**	**701**	**7,371**	**124**	**1,234**	**21,209**

APPENDIX

DEFINITIONS

This report covers those scientific and technological activities which involve the generation, dissemination and application of new scientific and technological knowledge. The central activity is research and experimental development (R&D). In addition, there are a number of related scientific activities (RSA) which are considered in less detail.

R&D is creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society and the use of this stock of knowledge to devise new applications.

It requires the acquisition of knowledge and not just information. New knowledge involves the integration of newly acquired information into existing hypotheses, the formulation and testing of new hypotheses or the re-evaluation of existing observations.

The major **related scientific activities** are technical surveys, statistical surveys, information services, special services and studies, and museum services. Statistical surveys, information services and museum services are largely self-explanatory.

Technical surveys are activities directed towards the exploration and systematic description of the earth and its natural resources. The activities include the gathering, processing, collating and analyzing of data on natural phenomena except when part of a research project of a museum service. The preparation of maps and survey reports, their printing and cataloguing, are also included.

Special services and studies in the natural sciences are activities directed towards the establishment of national and provincial standards for materials, devices, products and processes; the calibration of secondary standards; non-routine quality testing; feasibility studies and demonstration projects. In the social sciences, special services and studies are systematic investigations carried out in order to provide information needed for planning or policy formulation, including feasibility studies and demonstration projects.

DEFINITIONS - Concluded

Activities are either natural sciences or social sciences and humanities. **Natural sciences** consist of disciplines concerned with the understanding, exploring, developing or utilizing the natural world. Included are the engineering, mathematical, environmental, life and physical sciences. **Social sciences and humanities** include all disciplines involving the study of human actions and conditions and the social, economic and institutional mechanisms affecting humans. Included are such disciplines as anthropology, business administration and commerce, communications, criminology, demography, economics, geography, history, languages, literature and linguistics, law, library science, philosophy, political science, psychology, religious studies, social work, sociology and urban and regional studies.

Five **performing sectors** are identified besides the Saskatchewan Research Council. Intramural refers to the provincial department or agency performing a scientific activity. Industry is largely private corporations but also includes crown corporations with a commercial function (e.g., power utilities) and industrial research institutes not controlled by another institution. Universities cover post secondary educational institutions and affiliated teaching and research facilities. Hospitals and health organizations are health organizations such as the Heart Foundation and hospitals which do not belong to the universities sector. Other includes non-resident performers of scientific activities funded by the provincial government, as well as recipients not covered elsewhere such as the Federal Government, other provincial departments and individuals.

Expenditures are either **current or capital**. Current expenditures include those costs for personnel, transportation and communications, information, professional and special services, rentals, purchased repair and upkeep, utilities, materials and supplies. Capital expenditures are those on the construction and acquisition of land, buildings, machinery and equipment. Total expenditures include current plus capital.

THE RESPONDENTS

NOTE: The 1982 Saskatchewan provincial election resulted in a number of changes in departments. Where only the name of department was changed the new name is shown on historical tables. Departments which fall into this category are:

FORMERLY	CURRENTLY
Continuing Education	Advanced Education and Manpower
Consumer Affairs	Consumer and Commercial Affairs
Culture and Youth	Culture and Recreation
Mineral Resources	Energy and Mines
Rural Affairs	Rural Development

Other departments were reorganized in 1982. Mandates changed or were combined and/or shifted to newly created departments. These departments are shown historically under both the old and new names:

FORMERLY	CURRENTLY
Industry and Commerce	Economic Development and Trade
	Tourism and Small Business
Tourism and Renewable Resources	Parks and Renewable Resources
Municipal Affairs	Rural Development (Affairs)
	Urban Affairs

In historical tables the Executive Council includes the Bureau of Statistics and Intergovernmental Affairs. The Alcoholism Commission, the Medical Care Insurance Commission and the Health Research Board are included with Health in historical tables.

RESPONDENTS - Continued

Advanced Education and Manpower: Coordinator - Gerry Carline 787-5607
Post-secondary and adult education trends and needs are the primary activity of this department. The focus is on what the needs are and how to develop programs which will serve those needs.

Agriculture: Coordinator - Brenda Machin 787-5139
Four branches are included in this department's submission: Economics, Extension Services, Livestock, and Lands. Expenditures for 1986-87 are expected to increase by 187% (9.2 million), due to increased funding from the Saskatchewan Agriculture Research Fund.

Archives Board: Coordinator - Ian Wilson 787-4066
The Saskatchewan Archives Board is responsible for selecting, acquiring, preserving, arranging, describing and making accessible documents in all media, from both public and private sources, bearing on the history of Saskatchewan. The archives Board operates a records management program for the Saskatchewan government, a sound and film archives, and publishes both Saskatchewan History and other special publications in addition to normal archival programs.

Assessment Authority: Coordinator - Henry Schappert 787-2657
The Research and Standards Branch conducts policy research related to property assessment issues.

Cancer Foundation: Coordinator - Valerie J. Lusk 585-1831
R&D is performed by the Physics and Medical Services units of the Foundation. Activities are related to the development of improvements in cancer treatment.

Consumer and Commercial Affairs: Coordinator - David Stuewe 787-3895
The Planning and Policy Branch supports RSA in the social sciences. Some projects are analysing the impact of rent regulations, research on industry self regulation and self administration, and research on the food industry.

Cooperation & Cooperative Development: Coordinator - Andrew Lindsay 787-5800
Development of legislation, regulations, manuals and models for co-operatives and feasibility studies are undertaken by this department. They also provide financial support to the University of Saskatchewan Cooperative Studies Program.

Culture and Recreation: Coordinator - David Baron 787-2814
The Life and Earth Science units of the Museum of Natural History represent the natural science expenditures of this department. In the social sciences, the report includes expenditures of the Archaeology Curatorial Unit of the Museum and the Heritage Resources Branch. Collection, acquisition, preparation, documentation, maintenance, exhibit planning, analysis and publication are some of the activities the department is involved in.

RESPONDENTS - Continued

Economic Development & Trade: Coordinator - Barry Gunther 787-7838
Included in the Policy and Planning Branch's related scientific activities are: analysis of the economic impact of major industrial project proposals, management of extramural studies, development and maintenance of information systems, development of publications identifying industrial opportunities and providing liaison with other government programs.

Education: Coordinator - Bob Arkell 787-6057
Five divisions within the department are engaged in RSA: the Official Minority Language Office, Curriculum Development, Planning and Evaluation, Program Services, and Finance and Administration. They support research activities by providing consultative assistance and policy monitoring, public opinion surveys, the construction of standardized testing instruments, the design of research studies and distribution of research reports. Substantial efforts were directed towards supporting the Minister's Curriculum Advisory Committee.

Employment Development Agency: Coordinator - Rose-Marie Frischholz 787-6438
Related Scientific Activities of the agency include: analysis of employment in agriculture and the labour market in Saskatchewan; the development of a Labour Statistic Report of Saskatchewan; a career conselling computer system and a preliminary investigation on long term unemployment.

Energy and Mines: Coordinator - Don McFadyen 787-2523
Funding for scientific activities is provided by the Federal Department of Energy, Mines and Resources (42%), the Saskatchewan Heritage Fund (54%) and the department (4%). The Heavy Oil Agreement and the Heavy Oil/Fossil Fuels Research Program are the activities which the Federal Government supports. The Saskatchewan Research Council is the major performer of extramural R&D.

Environment: Coordinator - R. Walker 787-6139
Branches involved in scientific activities within this department are: Coordination and Assessment, Air Pollution Control, Land Protection, Water Pollution Control, and Mines Pollution Control. Activities include the collection and analysis of air quality data, studies for the development of environmental guidelines, reviews of specific environmental impact assessments, water quality surveys, monitoring compliance of mine operators and the monitoring and inspection of water and waste water works.

Executive Council: Coordinator - name not available.
The Executive Council reports expenditures on both R&D and RSA in the social sciences. Projects include on-going research and improved development of the Economic Accounts, techno economical studies in relation to strategic planning, agriculture economic studies, and the collection and dissemination of statistical data. Effective January, 1986 the Saskatchewan Bureau of Statistics came under the Saskatchewan Library.

Finance: Coordinator - Michael Shaw 787-6739
Intramural research activities centre around economic analysis and policy research related to resource allocation, taxation and investment.

RESPONDENTS - Continued

Health: Coordinator - L. Slater 787-3156

Included in this report are: Saskatchewan Prescription Drug Plan, Ambulance Services Unit, Psychiatric Services Branch, Policy Research and Management Services Branch, Vital Statistics Division, Provincial Laboratory, Community Health Services Branch, Medical Care Insurance Commission, Alcohol and Drug Abuse Commission and the Health Research Board. Seventy-three percent of the expenditures are in the natural science and 66% percent of total science expenditure is for related scientific activities. Intramural activities account for 78% of the total expenditure.

Highways and Transportation: Coordinator - A.T. Horosko 787-4781

Seven branches: Technical Research, Materials Testing, Traffic Safety, Planning Support, Transporation Systems, Geotechnical and Transportation Policy support natural science activities such as lab and field testing of materials and soils, geotechnical studies, payment performance, test track studies, traffic accident analyses, traffic research, and grain transportation research.

Highway Traffic Board: Coordinator - R. Paragg 787-4054

The Legislative Review and Rate Unit, the Coordination and Research Unit, Safety Services, the Operations Review Unit, and the Transport Compliance Sections are units performing RSA in the social sciences.

Indian & Native Affairs Secretariat: Coordinator - H. Danchilla 787-6264

The secretariat funds related scientific activities in the social sciences. Their principal activity involves the constitutional amendment of Aboriginal Rights.

Justice: Coordinator - Dr. John Hylton 787-7869

Senior Administration and the Policy, Planning and Evaluation Branch are extensively involved in program planning, policy development and program evaluation of related scientific activities in the social sciences. The Department makes a substantial contribution to the development and maintenance of specialized libraries for use by professional departmental staff.

Labour: Coordinator - Ruth Drope 787-2419

The Policy Planning & Research Branch reports RSA in the social sciences. Activities include analysis and monitoring of provincial collective bargaining agreements, an annual survey of wages, and working conditions, a survey of minimum wage earners in Saskatchewan, analysis and monitoring of labour force statistics, and maintenance of Labour Library.

RESPONDENTS - Continued

Parks and Renewable Resources: Coordinator - Sharon Coffin 787-2884
Eight branches, Fisheries, Forestry, Wildlife, Construction, Parks, Statistics and Education, Communication Services and Forest Fire Management report in the natural sciences. Seventy-four percent of the activities are performed by departmental personnel.

Public Service Commission: Coordinator - Rebecca Palmquist 787-7502
Six branches and the Resource Centre Library report Related Scientific Activities in the social sciences. The library specializes in books, reports, journals, etc. related to human resource management.

Revenue & Financial Services: Coordinator - Bill Van Sickle 787-6530
The Policy and Monitoring Branch is involved in the political, financial and administrative implications of changes to the various taxes, policies and programs administered by the department. The Senior Pension and Benefits Analyst researches, analyzes and reports on the implications of changes to the various pension and benefits plans administered by the department. The Financial Management Branch develops policy and procedures in accounting and reporting for the provincial comptroller.

Rural Development: Coordinator - Walter Antonio 787-2720
The Planning and Research Branch activities included: traffic volume studies; a heavy oil road study; industrial and high volume road program; regravel assistance program; mill rate survey; zero base review and Coronach report.

Saskatchewan Crop Insurance Corporation:
Technical surveys are conducted on croop yields for established and new crops. A weather-based yield model is used to predict forage yields. Remote sensing technology is used to identify boundaries and to determine acreage.

Saskatchewan Housing Corporation: Coordinator - J.M. Emery 787-6617
The Research Department conducts surveys on public & non-profit family housing, computer development and data analysis; analysis of housing demand and market, and program evaluation and development.

Saskatchewan Library: Coordinator - Joylene Campbell 787-3006
The Saskatchewan Bureau of Statistics transferred to this department in January 1986. Projects include: ongoing research and improved development of the Economic Accounts, improving the methodology of population projections, development of retail trade statistics for small areas of Saskatchewan, and the collection and dissemination of statistical data.

Saskatchewan Water Corporation: Enquiries - Terry Fereka 694-3915
Intramurally Watershed Management conducts technical surveys and analysis of soil relating to water seepage from canals. The Resource Management unit is involved in hydrology studies.

THE RESPONDENTS - Concluded

Science & Technology: Coordinator - Royal Hinther 933-7209
Natural sciences departmental activities include: information collection and dissemination, industrial counselling, policy formulation, administration of R&D incentive contracts, statistical survey and special services and studies.

Social Services: Coordinator - Martin Spigelman 787-3621
The majority of activities in this department are RSA and 81% are performed outside the department. Intramural activities include: the examination of social and demographic trends with implication for welfare system reform; the development of an automated assistance plan system; a needs assessment for non-government organizations; a data base on youth in preparation for implementation of the Young Offenders Act; the development of standards for Young Offenders program and program evaluations.

Supply and Services: Coordinator - Kevan Taylor 787-2107
In the natural sciences the Central Survey and Mapping Agency includes 3 branches with R&D and RSA: Survey Contract Branch, Mapping Branch and Data Management Branch. Technology Management Branch & Marketing Services Branch report RSA activity in the social sciences. Sixty-eight percent of their science activities are performed by department personnel.

Tourism and Small Business: Coordinator - Peter Wyse 787-9549
The Northern Economic Development Branch and the Business Information and Research Branch are involved in special studies. Sixty-one percent is performed extramurally.

Telephones: Coordinator - Terry Colin 787-5783
This department is included with Justice for 1985-86. The Communications Policy Branch is responsible for leading or coordinating activity associated with communications issues and/or projects.

Urban Affairs: Coordinator - Denis Exner 787-2675
Municipal Finance Branch, Municipal Advisory Services Branch and Community Planning Branch report RSA in the social sciences. Seventy-two percent of the scientific activities are conducted intramurally. Activities include: studies related to municipal finance, urban development, municipal law, advisory services and training or municipal administrators, land use planning and long term community development.

Women's Secretariat: Coordinator - Leah Siebold 787-7401
The Policy Analysis and Coordination Unit is concerned with women's issues.

INDICATORS OF PROVINCIAL SCIENTIFIC ACTIVITIES

1. Population and Income

Province	Population January/86[1]		Personal income per capita 1984[2]		Provincial Gross Domestic Product per capita 1984[3]	
	(000)	Rank	($)	Rank	($)	Rank
Newfoundland	581	9	9,702	10	10,318	9
Prince Edward Island	128	10	10,310	9	9,601	10
Nova Scotia	883	7	11,693	7	11,828	7
New Brunswick	720	8	10,734	8	11,214	8
Québec	6,610	2	13,487	5	14,770	6
Ontario	9,140	1	15,841	1	18,352	2
Manitoba	1,075	5	13,743	4	15,475	5
**Saskatchewan ..... **	**1,020**	**6**	**13,006**	**6**	**17,095**	**4**
Alberta	2,373	4	15,376	2	25,287	1
British Columbia	2,898	3	14,778	3	17,244	3
**Canada [4]..... **	**25,501**		**14,412**		**17,385**	

[1] **Canadian Statistical Review**, Statistics Canada, Catalogue No. 11-003E, July 1986.
[2] **National Income and Expenditure Accounts, 1970-1984**, Statistics Canada, Catalogue No. 13-201.
[3] **Provincial Economic Accounts, Experimental Data, 1969-1984**, Statistics Canada, Catalogue No. 13-213.
[4] Includes the Yukon and Northwest Territories.

INDICATORS OF PROVINCIAL SCIENTIFIC ACTIVITIES

2. Universities

Province	Graduate students per ten thousand population (15 years and over) 1984-85[1]		Sponsored research in universities per capita, 1984-85[2]	
		Rank	($)	Rank
Newfoundland	15	7	25	8
Prince Edward Island	-	10	5	10
Nova Scotia	27	4	30	5
New Brunswick	13	9	15	9
Québec	34	1	31	4
Ontario	30	2	36	2
Manitoba	30	3	33	3
Saskatchewan	**15**	**8**	**30**	**6**
Alberta	27	5	39	1
British Columbia	21	6	26	7
Canada	**28**		**32**	

[1] Full-time enrolment for graduate degrees, per ten thousand population (15 years and over) **Universities Enrolment and Degrees, 1984-85**, Statistics Canada, Catalogue No. 81-204, and "Postcensal Estimate of Population by Sex and Age for Canada and the Provinces", June 1984, Population Estimates Section, Demography Division, Statistics Canada.

[2] **Financial Statistics of Universities and Colleges, 1984-85**, Canadian Association of University Business Officers.

INDICATORS OF PROVINCIAL SCIENTIFIC ACTIVITIES

3. Industry

Province	Value added by manufacturing activity per capita, 1983[1]		Current intramural industrial R&D expenditures per employee in primary and secondary industry, 1984[2]	
	($)	Rank	($)	Rank
Newfoundland	863	9	17	10
Prince Edward Island	761	10	91	8
Nova Scotia	1,517	7	107	7
New Brunswick	1,522	6	53	9
Québec	3,247	2	648	2
Ontario	4,746	1	955	1
Manitoba	1,871	4	168	6
Saskatchewan	**864**	**8**	**197**	**5**
Alberta	1,711	5	553	3
British Columbia	2,389	3	423	4
Canada[3]	3,207		676	

[1] **Manufacturing Industries of Canada; National and Provincial Areas, 1983,** Statistics Canada, Catalogue No. 31-203.

[2] Results of 1984 Industrial R&D survey, Science and Technology Statistics Section, Statistics Canada and **The Labour Force, June, 1986,** Statistics Canada, Catalogue No. 71-001.

[3] Includes the Yukon and Northwest Territories.

INDICATORS OF PROVINCIAL SCIENTIFIC ACTIVITIES

4. Federal Government

Province	Expenditures on intramural natural science activities 1984-85[1]	Federal personnel 1984-85[1]	Contracts awarded by the Science Procurement Sector, Department of Supply and Services, 1985-86[2]	
	($'000,000)	(Person-years)	Number	($'000,000)
Newfoundland	43	355	135	6
Prince Edward Island	7	112	24	1
Nova Scotia	128	1,744	355	11
New Brunswick	23	309	134	4
Québec	200[3]	1,934[3]	399	24
Ontario	288[4]	4,481[4]	1,207	105
Ottawa-Hull	704	10,465	...	...
Manitoba	132	1,585	125	6
Saskatchewan	**45**	**695**	**85**	**11**
Alberta	93	1,439	228	18
British Columbia	122	1,692	788	39
Canada[5]	**1,787**	**24,820**	**3,509**	**226**

(1) "Federal Scientific Establishments", Science and Technology Statistics Section, Statistics Canada.
(2) **Research and Development Bulletin**, April 1986, Supply and Services.
(3) Excluding Hull.
(4) Excluding Ottawa.
(5) Includes the Yukon and Northwest Territories.

INDICATORS OF PROVINCIAL SCIENTIFIC ACTIVITIES

5. Provincial Research Organizations

Province	Total expenditures on science and technology, 1985(1)	
	($000)	Rank
Nova Scotia	6,342	7
New Brunswick	7,034	6
Québec	33,403	2
Ontario	27,825	3
Manitoba	6,136	8
Saskatchewan	15,327	4
Alberta	48,659	1
British Columbia	8,389	5
Total	153,115	

(1) "The Provincial Research Organizations, 1985", **Science Statistics**, Vol. 10, No. 9, Statistics Canada, Catalogue No. 88-001.

INDICATORS OF PROVINCIAL SCIENTIFIC ACTIVITIES

6. Gross Domestic Expenditures on Natural Sciences and Engineering R&D in Canada, by Performing Sector, by Region, 1984[1]

Province	Federal government	Provincial government	Provincial research organization	Total government	Industry	University	Private non-profit	All sectors
	($000,000)							
Newfoundland	36	1	-	37	5	18	-	60
Prince Edward Island	7	-	-	7	1	1	-	9
Nova Scotia	95	1	3	99	15	38	1	153
New Brunswick	18	2	2	22	13	15	1	51
Québec	176	28	12	216	647	236	22	1,121
Ontario	703	43	15	761	1,687	398	35	2,881
Manitoba	112	1	3	116	30	55	5	206
Saskatchewan	37	3	4	44	41	36	-	121
Alberta	69	17	25	111	232	136	1	480
British Columbia	84	11	3	98	170	92	5	365
Canada[2]	1,337	107	67	1,511	2,859	1,025	70	5,465

[1] **"Estimates of Canadian R&D Expenditures, by Region 1979-1984"**, Science and Technology Statistics Section, Statistics Canada.
[2] Includes the Yukon and Northwest Territories.

INDICATORS OF PROVINCIAL SCIENTIFIC ACTIVITIES

7. Gross Domestic Expenditures on Natural Sciences and Engineering R&D in Canada, by Funding Sector, by Region, 1984[1]

Province	Federal government	Provincial government	Provincial research organization	Total government	Industry	University	Private non-profit	All sectors[3]
	($000,000)							
Newfoundland	46	2	-	48	5	4	3	60
Prince Edward Island	7	-	-	7	1	1	-	9
Nova Scotia	119	3	-	122	12	13	3	153
New Brunswick	29	3	-	32	10	6	2	51
Québec	381	92	1	474	518	45	36	1,121
Ontario	1,088	92	-	1,180	1,362	96	76	2,881
Manitoba	139	7	-	146	26	21	10	206
Saskatchewan	62	11	-	73	33	10	2	121
Alberta	128	92	-	220	188	52	9	480
British Columbia	157	19	-	176	135	22	16	365
Canada[2]	2,158	321	1	2,480	2,305	270	157	5,465

[1] **"Estimates of Canadian R&D Expenditures, by Region, 1979-1984"**, Science and Technology Statistics Section, Statistics Canada.
[2] Includes the Yukon and Northwest Territories.
[3] Includes Foreign sources of funds.

Indicators of Provincial Scientific Activities

8. Gross Domestic Expenditures on Natural Sciences and Engineering R&D in Saskatchewan, 1984 (1)

Funding sector	Performing sector							
	Governments				Business enterprise	Higher education	Private non-profit	Total
	Federal	Provincial	SRC	Total				
	($ millions)							
Governments								
Federal	37	-	-	38	5	19	-	62
Provincial	-	3	2	5	2	4	-	11
SRC	-	-	-	-	-	-	-	-
Sub-total	37	3	3	43	7	23	-	73
Business enterprise	-	-	1	1	31	1	-	33
Higher Education	-	-	-	-	-	10	-	10
Private non-profit	-	-	-	-	-	2	-	2
Foreign	-	-	-	-	3	-	-	3
Total	**37**	**3**	**4**	**44**	**41**	**36**	**-**	**121**

(1) **"Estimates of Canadian R&D Expenditures, by Region, 1979-1984"**, Science and Technology Statistics Section, Statistics Canada.

Provincial Coordinators

Seven provincial governments sponsored the Science and Technology Statistics Section in the collection of similar scientific activity data. Below is a list of co-ordinators for the various sponsoring departments/ministries.

Mr. D. Clark
Co-ordinator - Science and Technology
Science and Technology Secretariat
Department of Commerce and Technology
P.O. Box 6000
Fredericton, New Brunswick
E3B 5H1 Tel.: (506) 453-2489

Dr. M.F. Walmsley
Director, Premier's Council
Technology Fund
8th Floor, Hearst Block
900 Bay Street
Queen's Park
Toronto, Ontario
M7A 2E1 Tel.:(416) 963-3721

Mr. R. Hinther
Science Policy Advisor
Saskatchewan Science and Technology
108 Research Drive
Mall 3, Innovation Place
Saskatoon, Saskatchewan
S7N 2X8 Tel.: (306) 933-7209

Dr. R. Humble
Senior Policy Advisor
Manitoba Industry, Trade and Technology
214-155 Carlton Street
Winnipeg, Man.
R3C 3H8 Tel.: (204) 945-0127

Dr. B. Heemsbergen
Director, Planning Secretariat
Alberta Advanced Education
Devonian Building
11160 Jasper Avenue
Edmonton, Alberta
T5K 0L1 Tel.: (403) 422-4845

Mr. T. Prentice
Director
Science and Technology Division
Ministry of International Trade, Science
and Investment
818 Fort Street, 3rd Floor
Victoria, British Columbia
V8V 1X4 Tel.: (604) 387-2034

Mr. R. LeDrew
Development Officer
Technical Services Division
Department of Development and Tourism
P.O. Box 4750,
St. John's, Newfoundland
A1C 5T7 Tel.: (709) 576-5652

Statistics For the province of Quebec are provided by:

M.B. Girard
Responsible des A.S.T.
Ministère de l'Enseignement supérieur, de la
Science et de la Technologie
875 Grand-Allée
Edifice "H", 2e étage
Québec, Québec
G1R 4Y8 Tel.: (418) 643-3008

The Science and Technology Statistics Program is one of the major responsibilities of the Science, Technology and Capital Stock Division. The basic mission of the Section is to assure the availability of pertinent statistical information in support of the development of science and technology in Canada.

Activities of the Section are described in a semi-annual report distributed free of charge entitled **Activities of the Science and Technology Statistics Program**. This report is published in June and December each year.

Information is disseminated in a series of reports including monthly service bulletins, occasional background papers and annual reports which are described below.

Catalogued

88-001 Science Statistics
88-201 Science and Technology Indicators, 1985
88-202 Industrial Research and Development Statistics, 1984
88-203 Resources for Research and Development in Canada, 1983
88-204E Federal Scientific Activities, 1985 86
88-205E Directory of Industrial Research and Development Facilities in Canada, 1986
88-206E Directory of Federal Government Scientific and Technological Establishments, 19
88-501E An Indicator of Excellence in Canadian Science
88-502E International Payments and Receipts for Technology
88-503E Technology and Commodity Trade
88-504E Patents as Indicators of Invention
88-505E Industrial Productivity and Research and Development Indicators
88-506E A Framework for Measuring Research and Development Expenditures in Canada
88-507E An Indicator of Excellence in Canadian Science: Summary Report
88-509 Price Indexes for Canadian Industrial Research and Development Expenditures

Uncatalogued

Estimates of Canadian Research and Development Expenditures, by Region, 1979-1984

Estimation of R&D Expenditures in the Higher Education Sector, 1984-85

Federal Government Expenditures on Activities in the Natural Sciences and Engineering, 1963-64 to 1986-87

Federal Government Expenditures on Activities in the Social Sciences and Humanities, 1970-71 to 1986-87

Federal Personnel Engaged in Scientific Activities, 1977-78 to 1986-87